

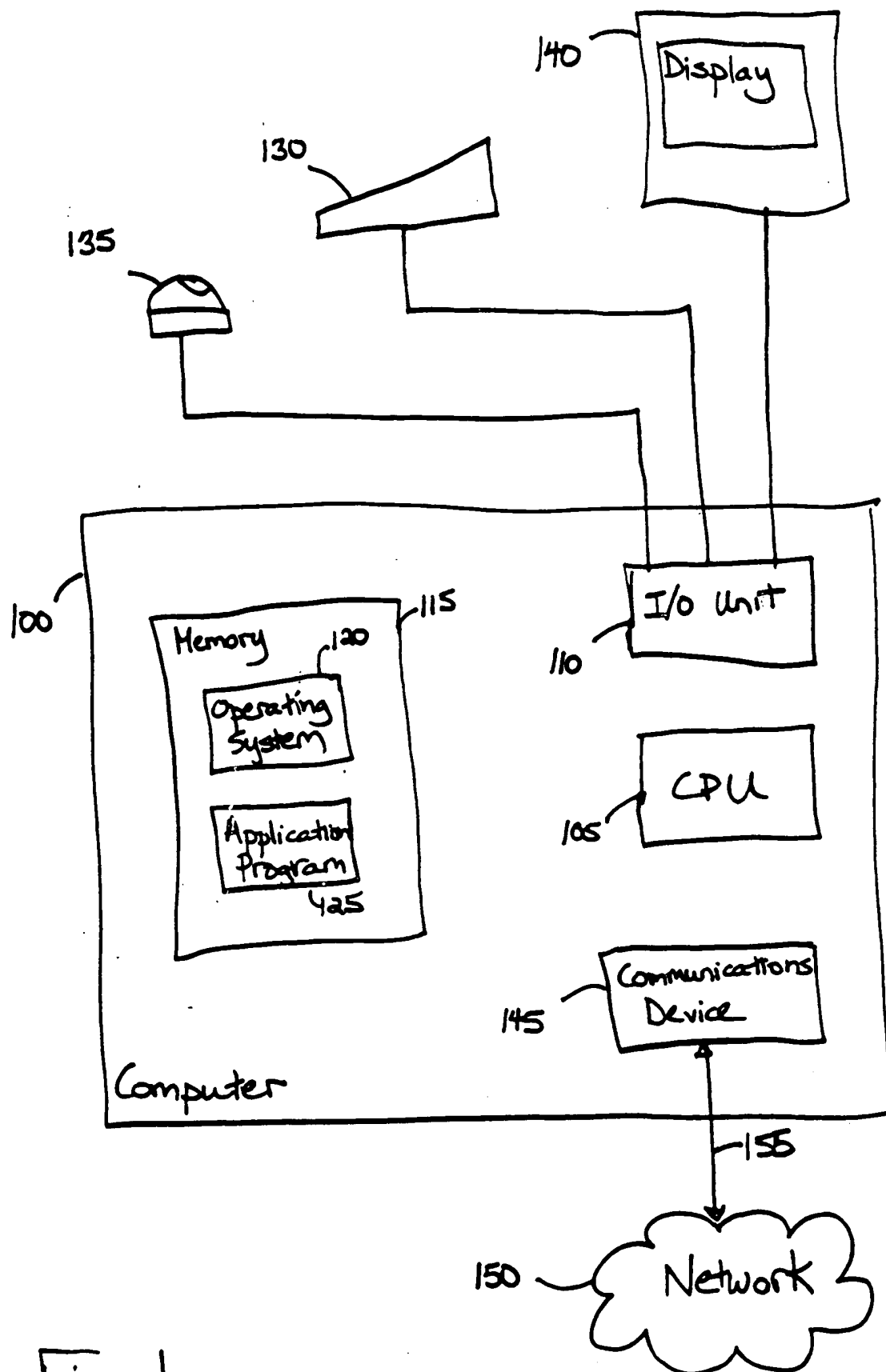
[illegible]

Fig. 1

200

SECRET E4082460

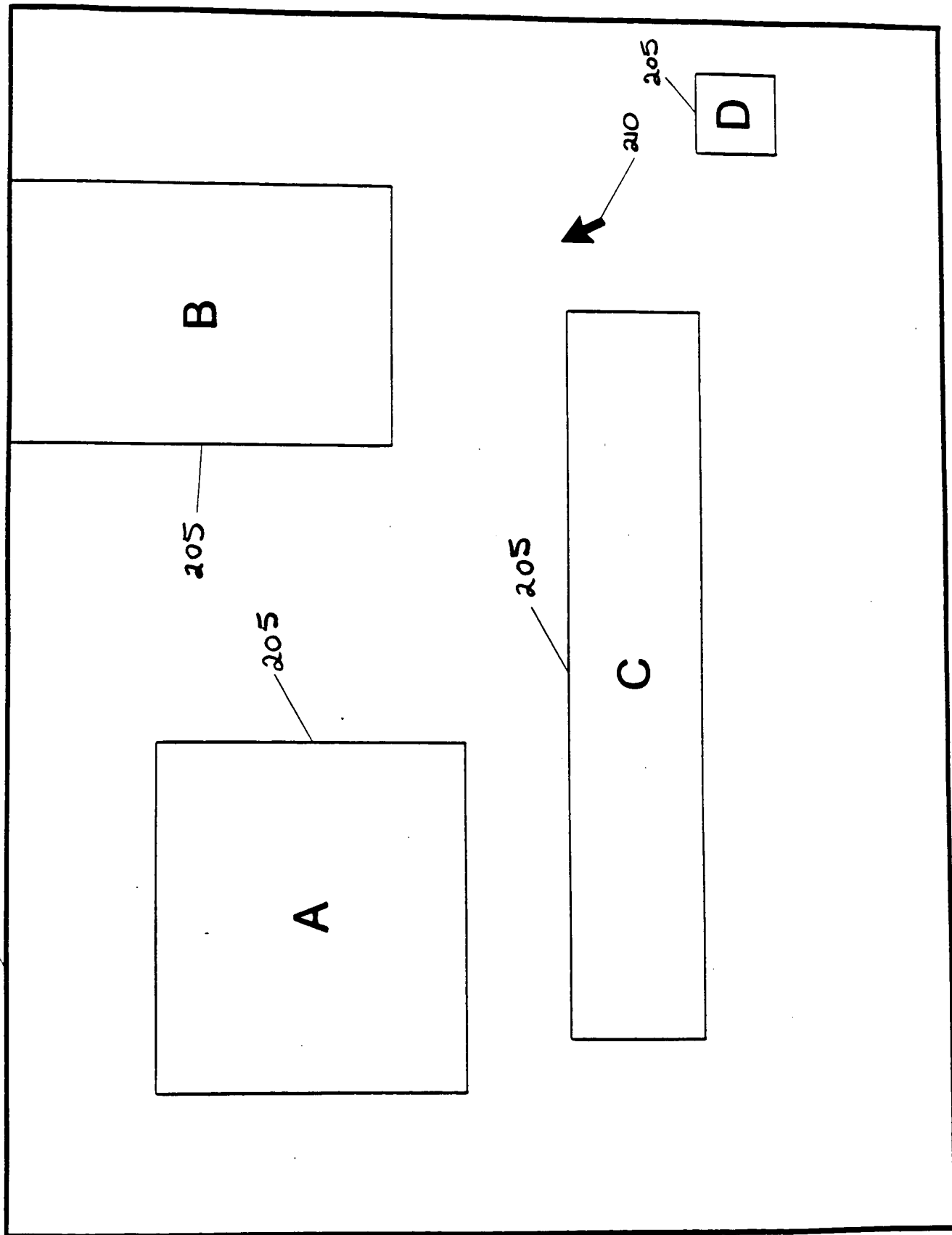


Fig. 2  
PRIOR ART

300

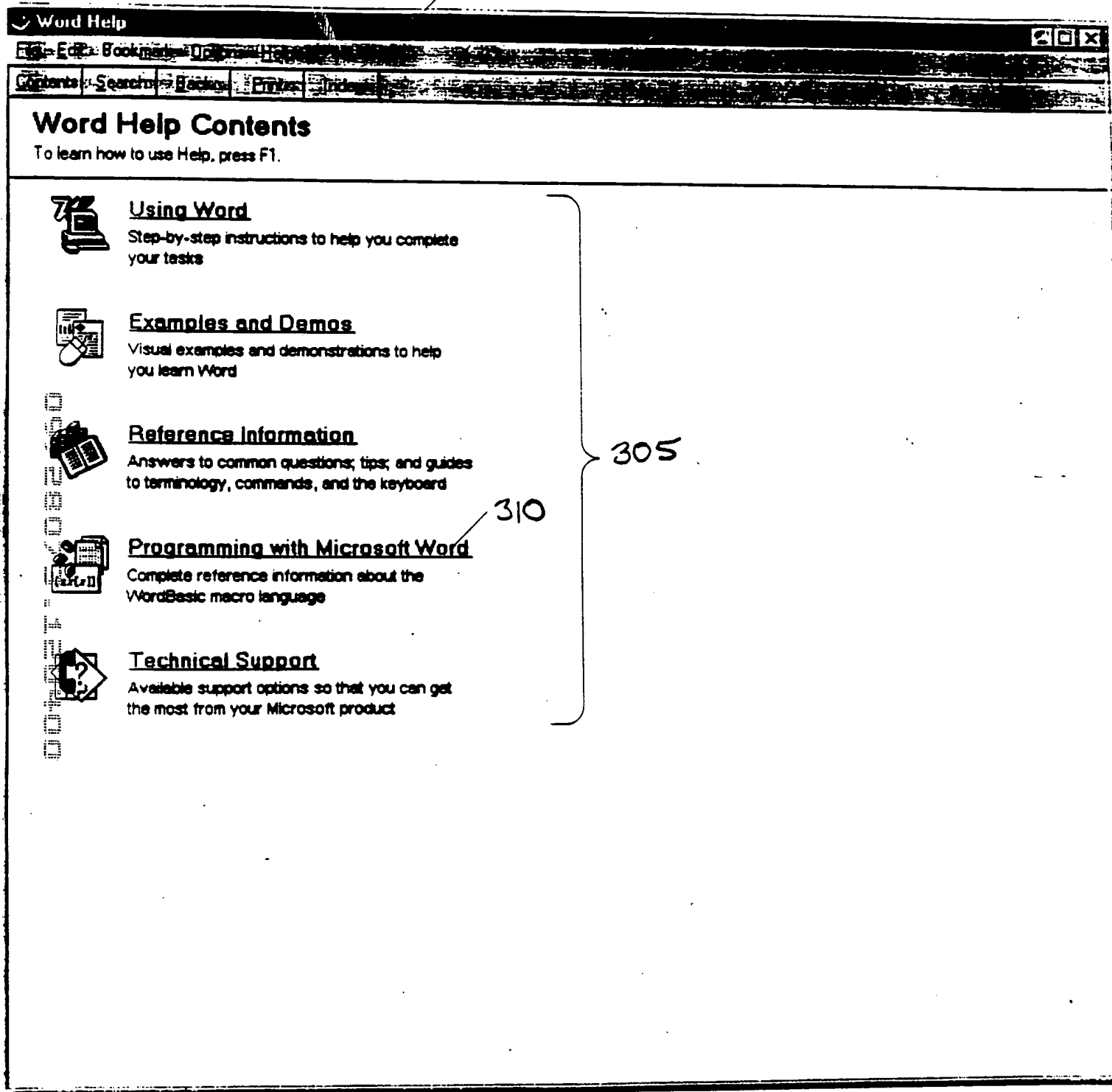


Fig. 3A  
PRIOR ART

300

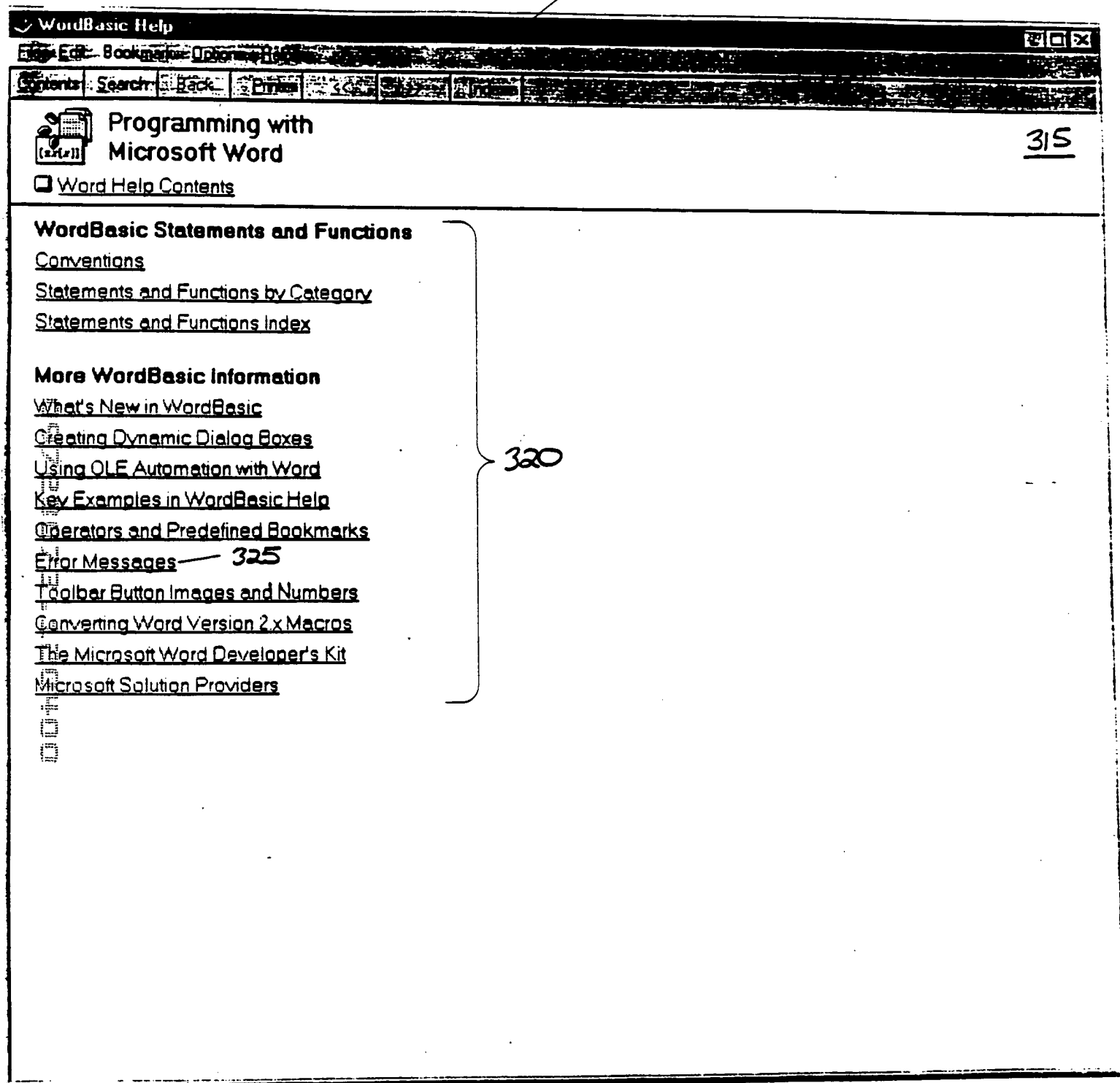
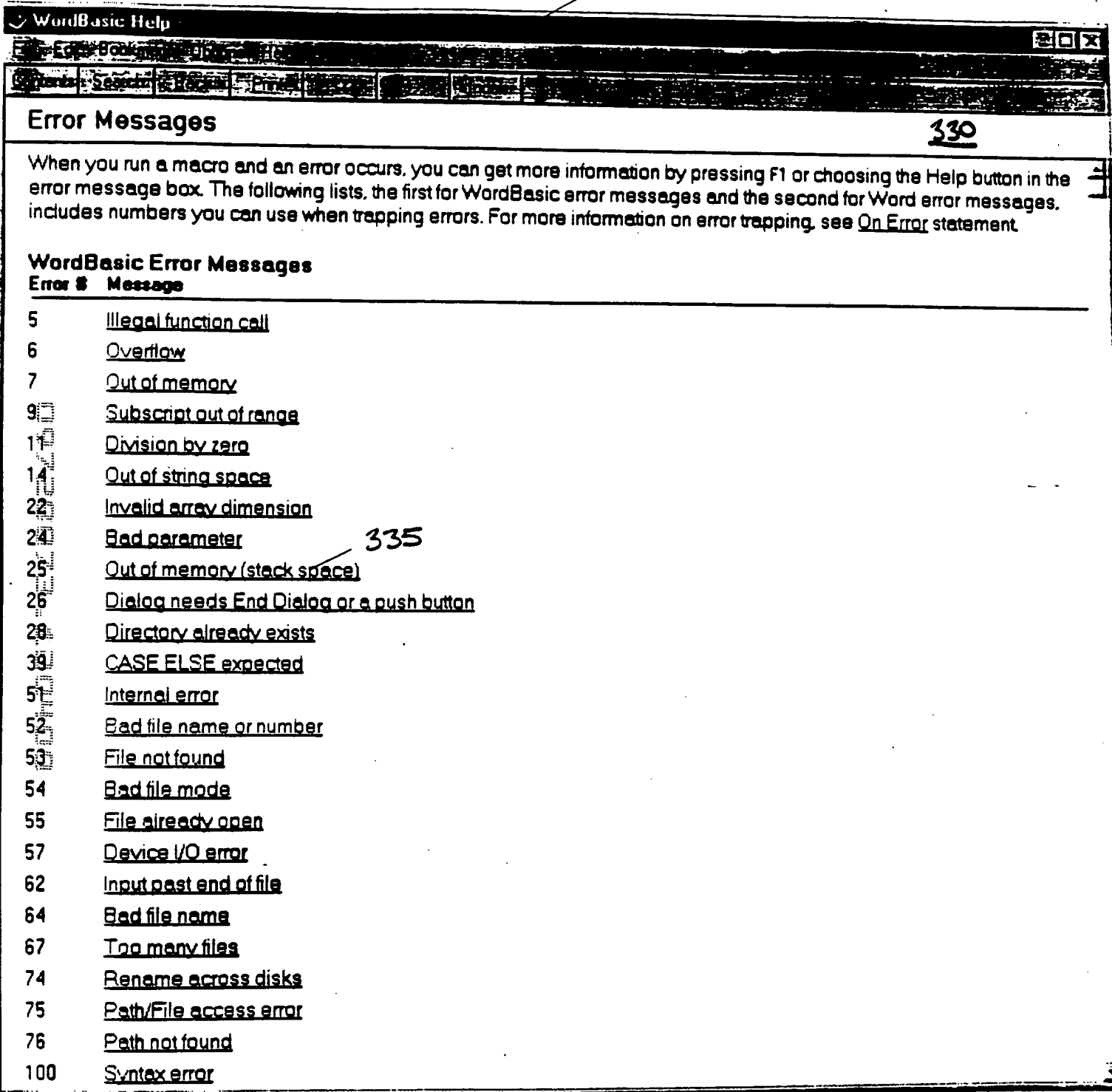


Fig. 3B  
PRIOR ART



**Fig. 3C**  
**PRIOR ART**

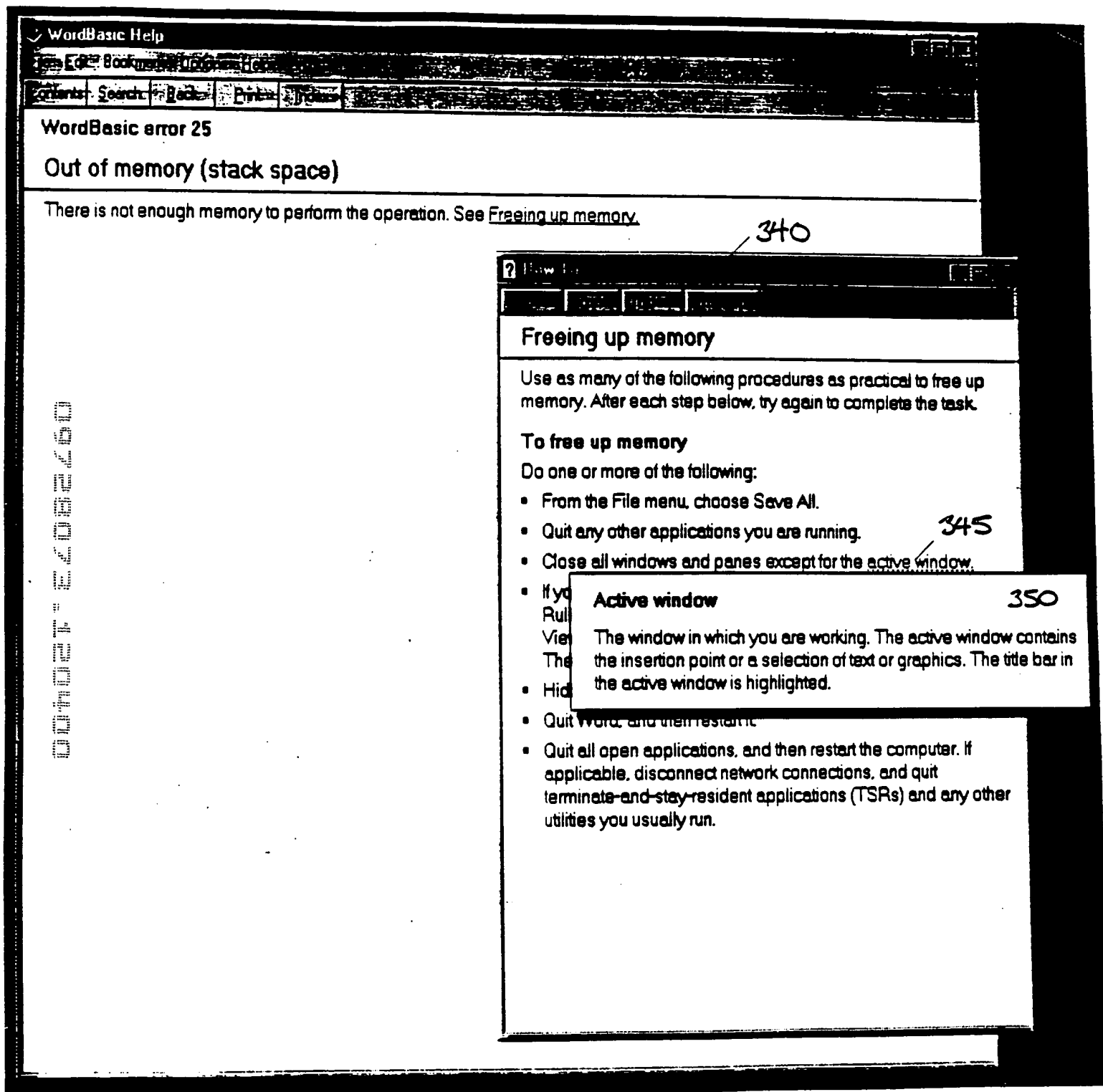


Fig. 3D  
PRIOR ART

410

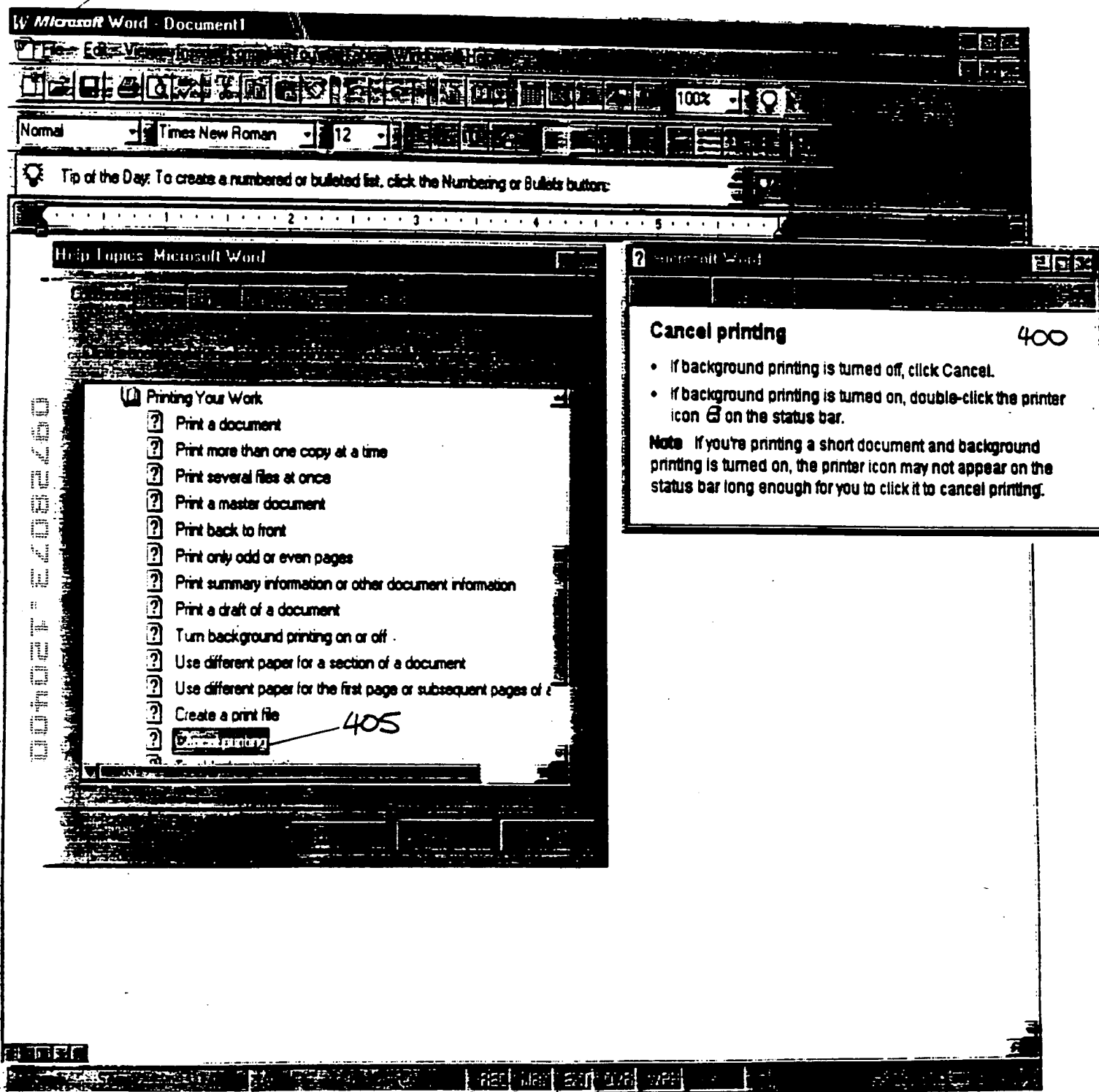


Fig. 4  
PRIOR ART

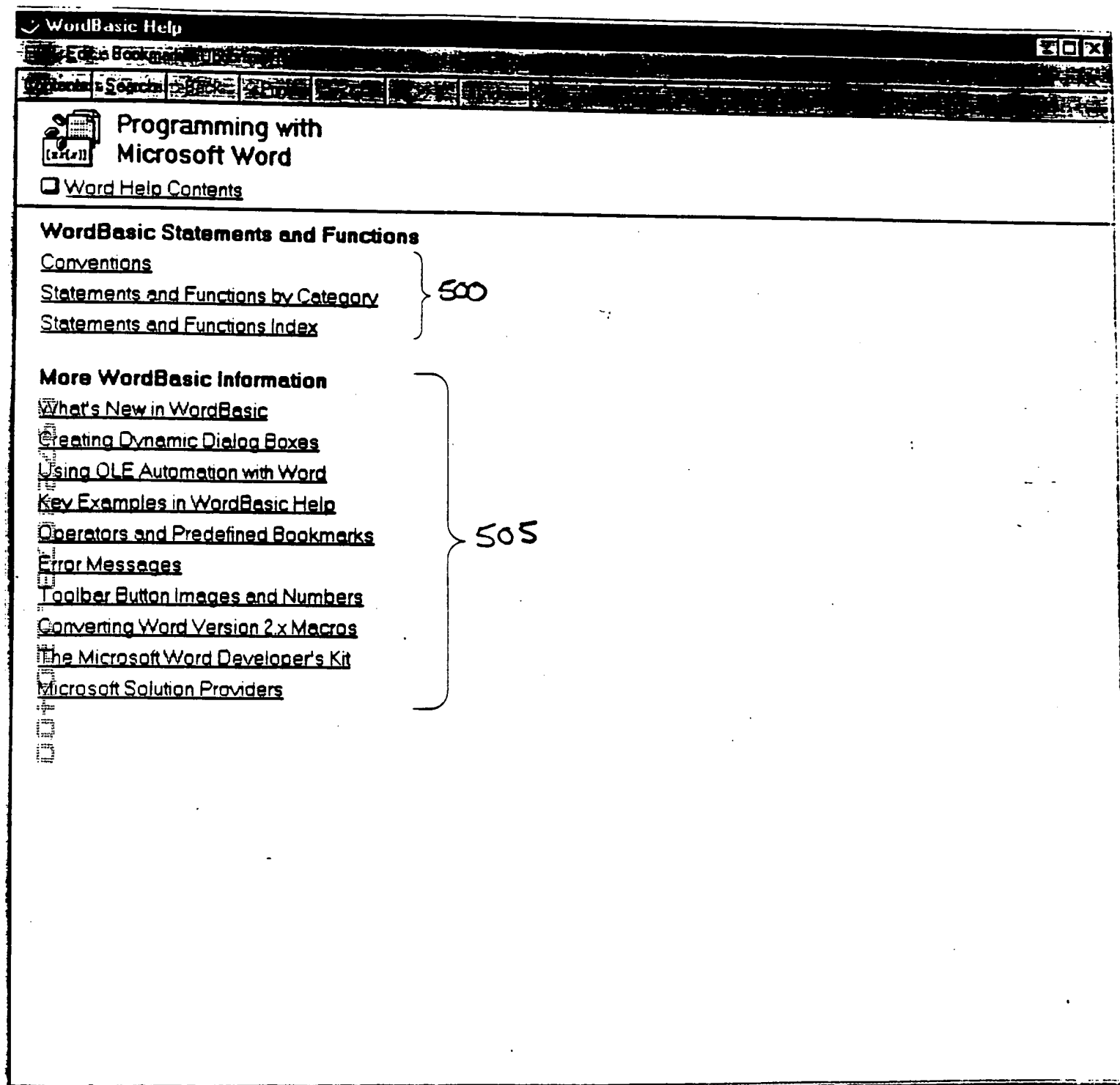


Fig. 5A  
PRIOR ART



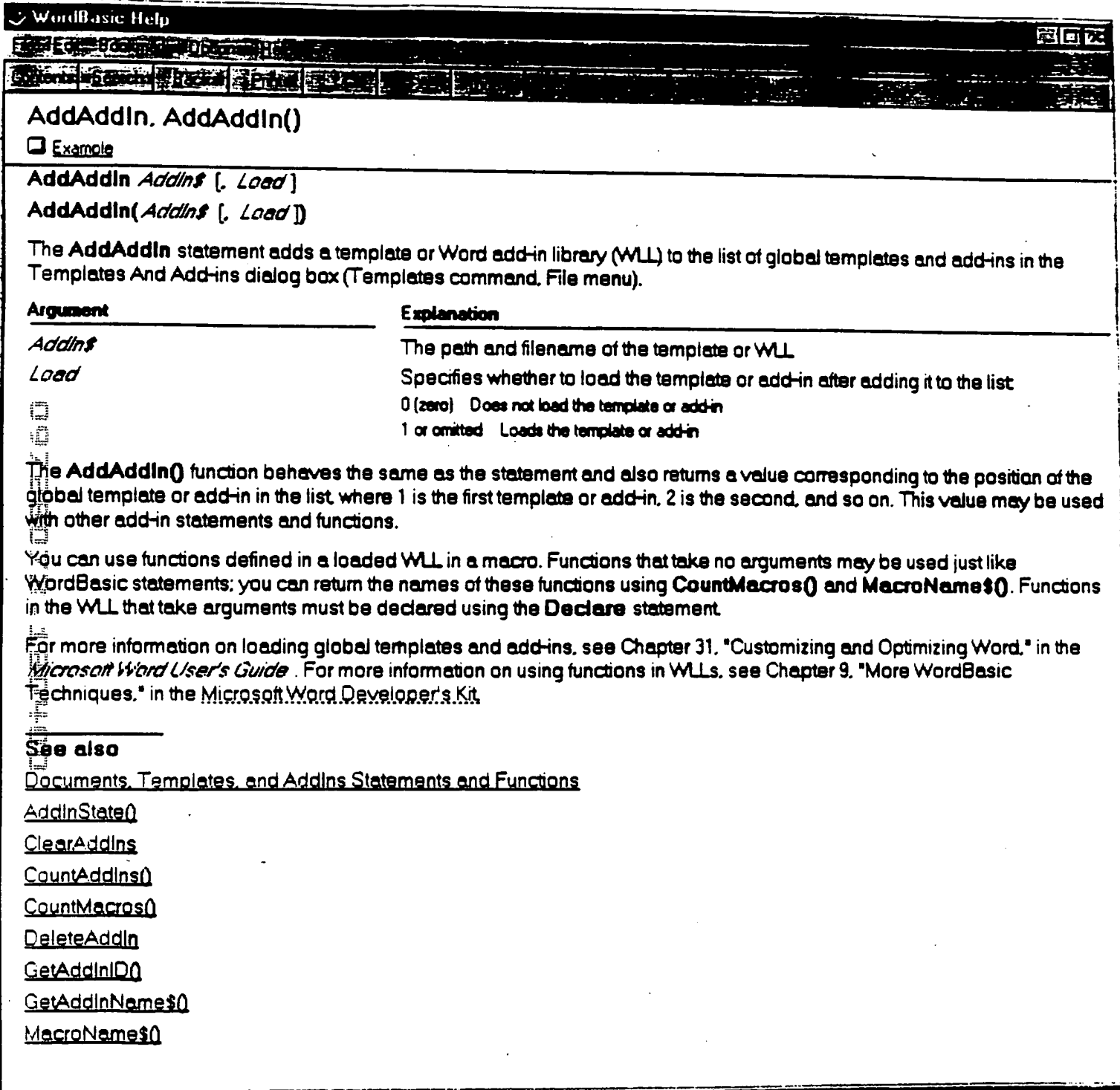
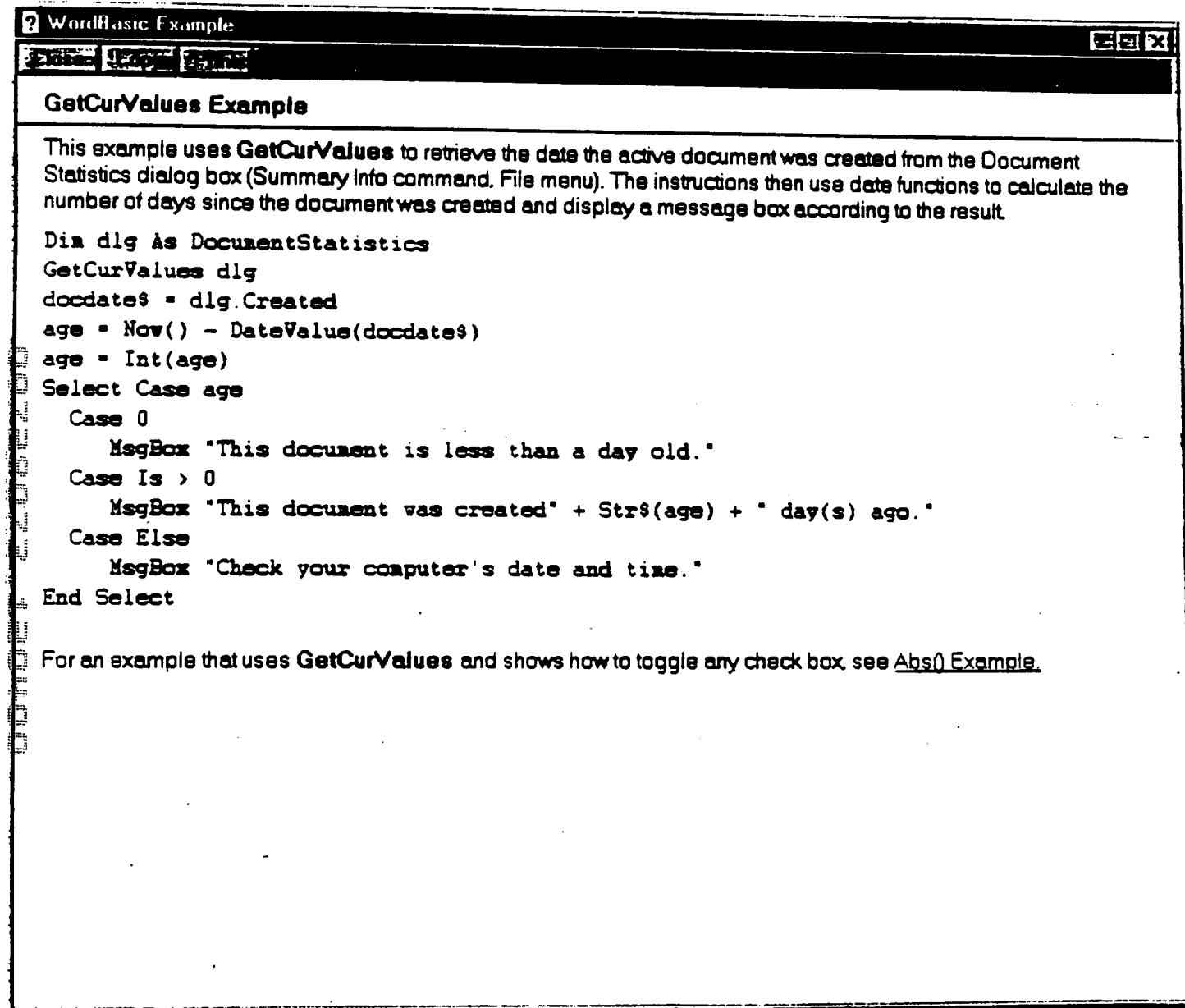


Fig. 5B  
PRIOR ART



**Fig. 5C**  
**PRIOR ART**

Fig. 6

0044027-22032260

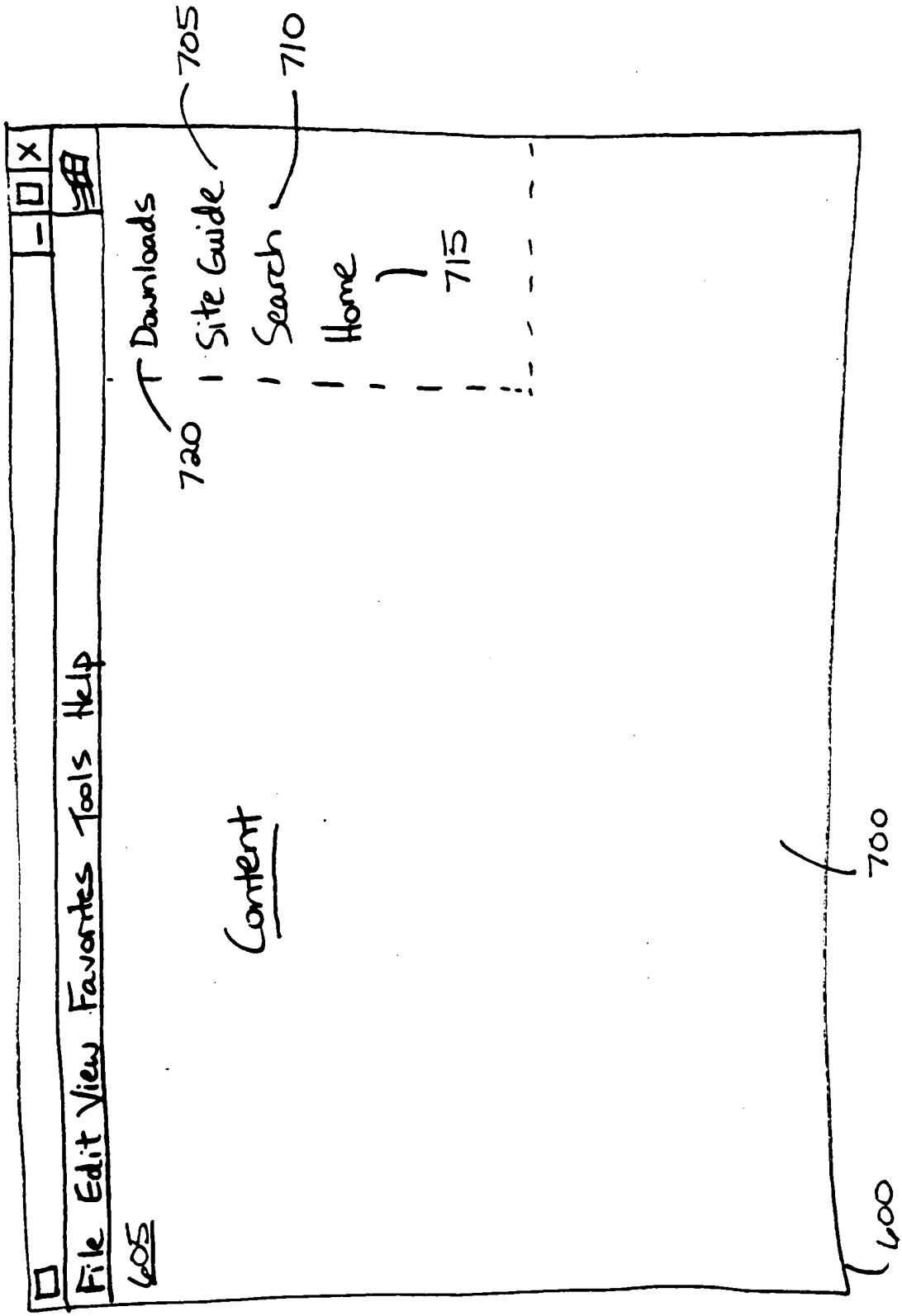
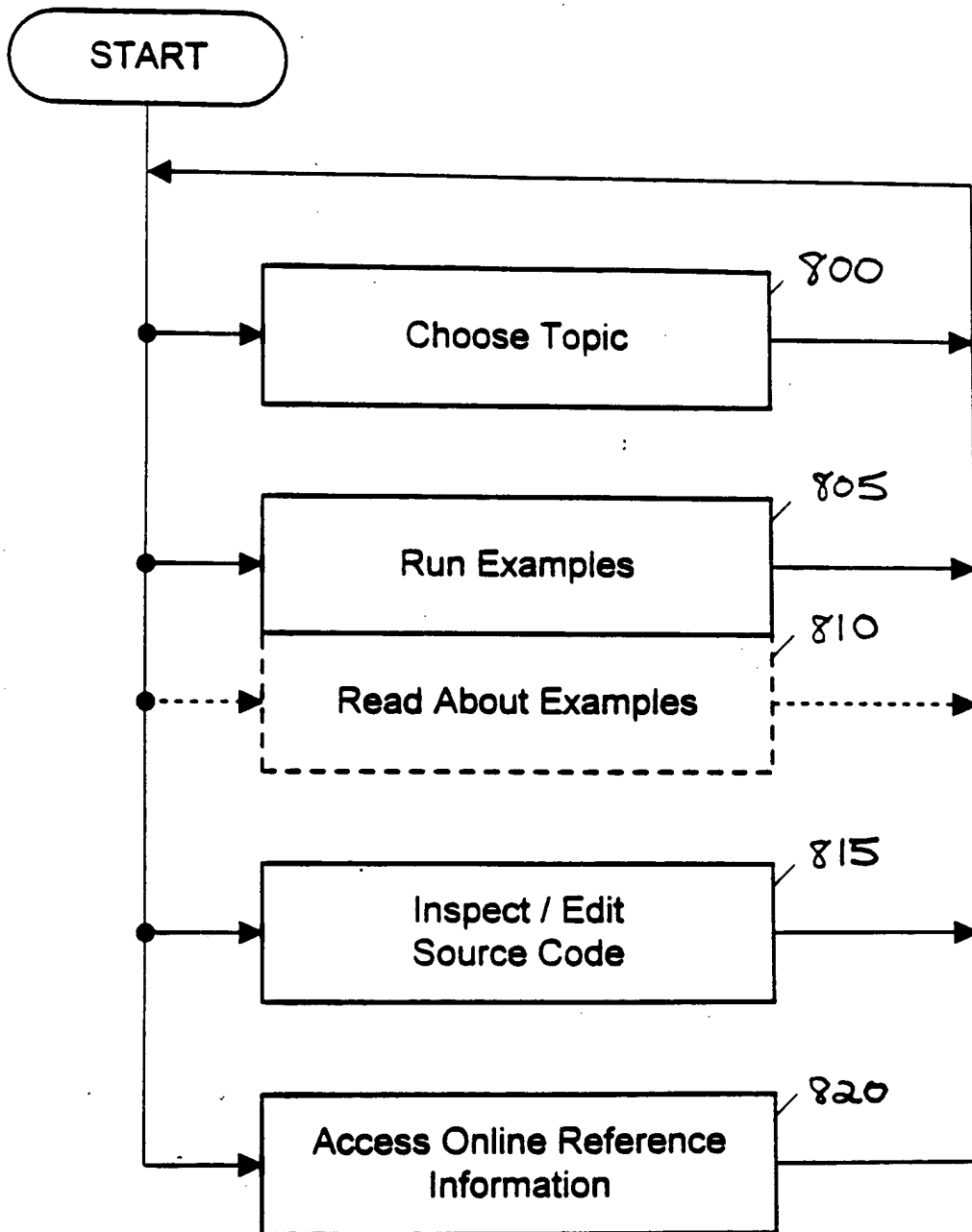


Fig. 7

20040274000260



**Fig. 8**

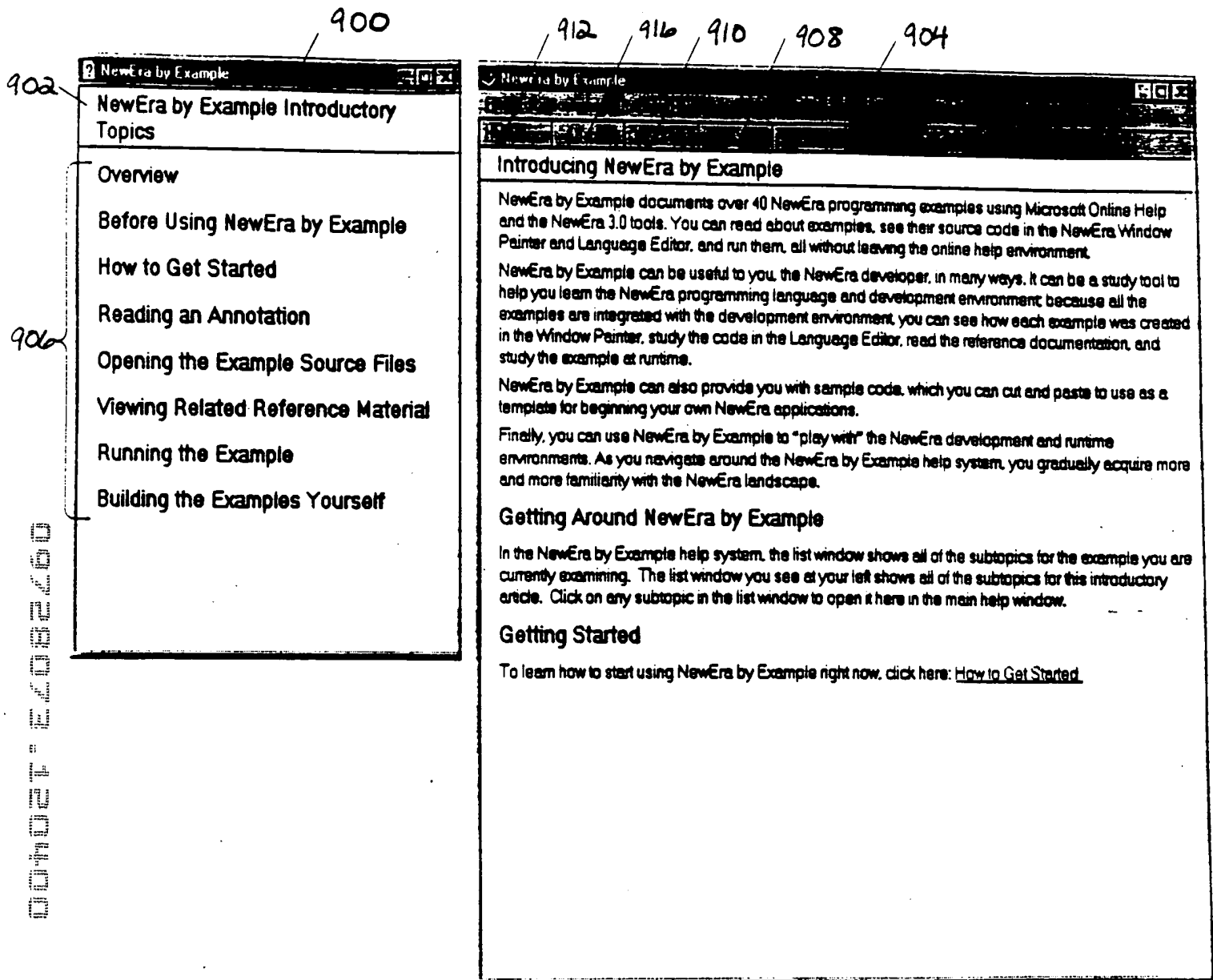


Fig. 9A

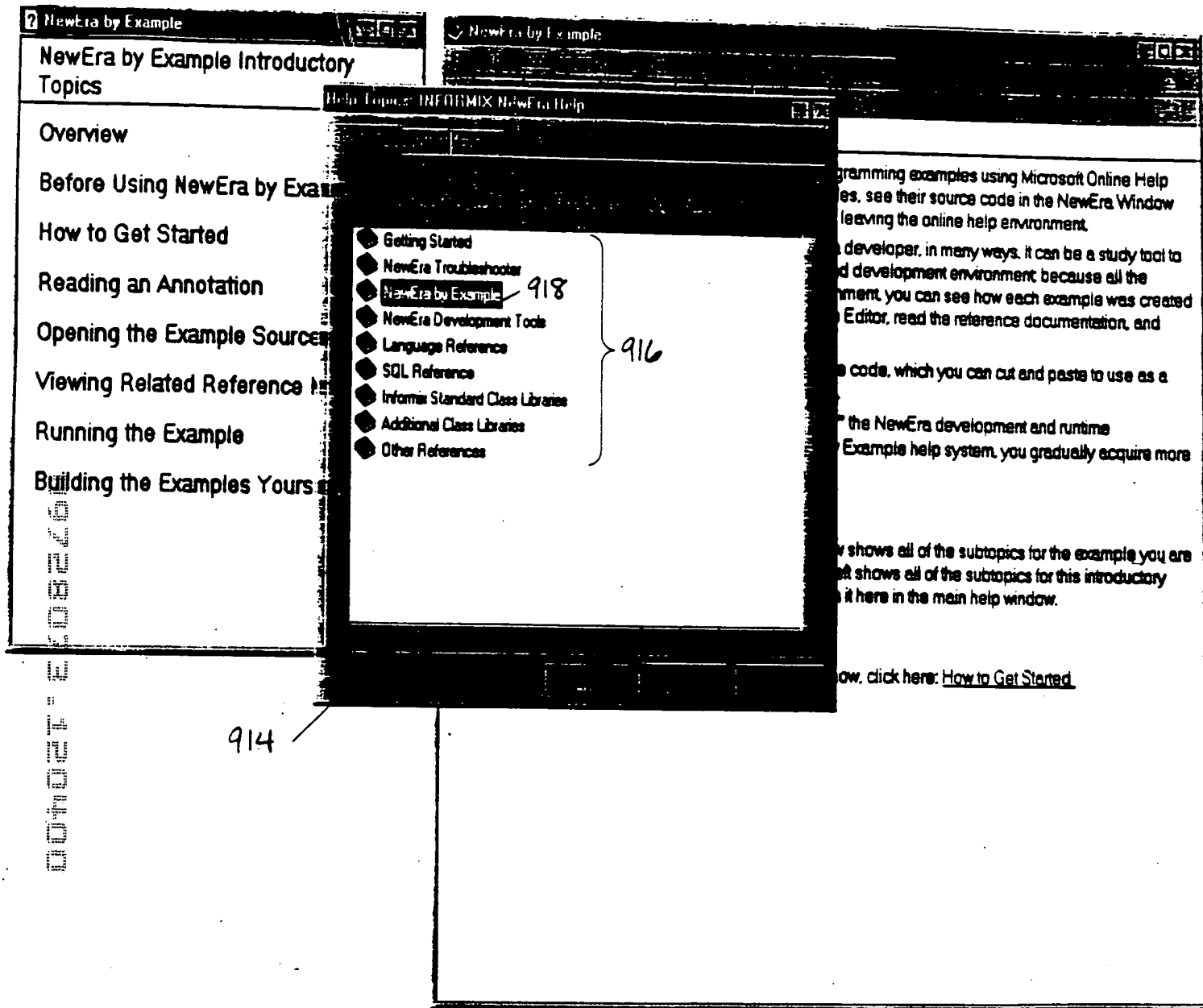


Fig. 9B

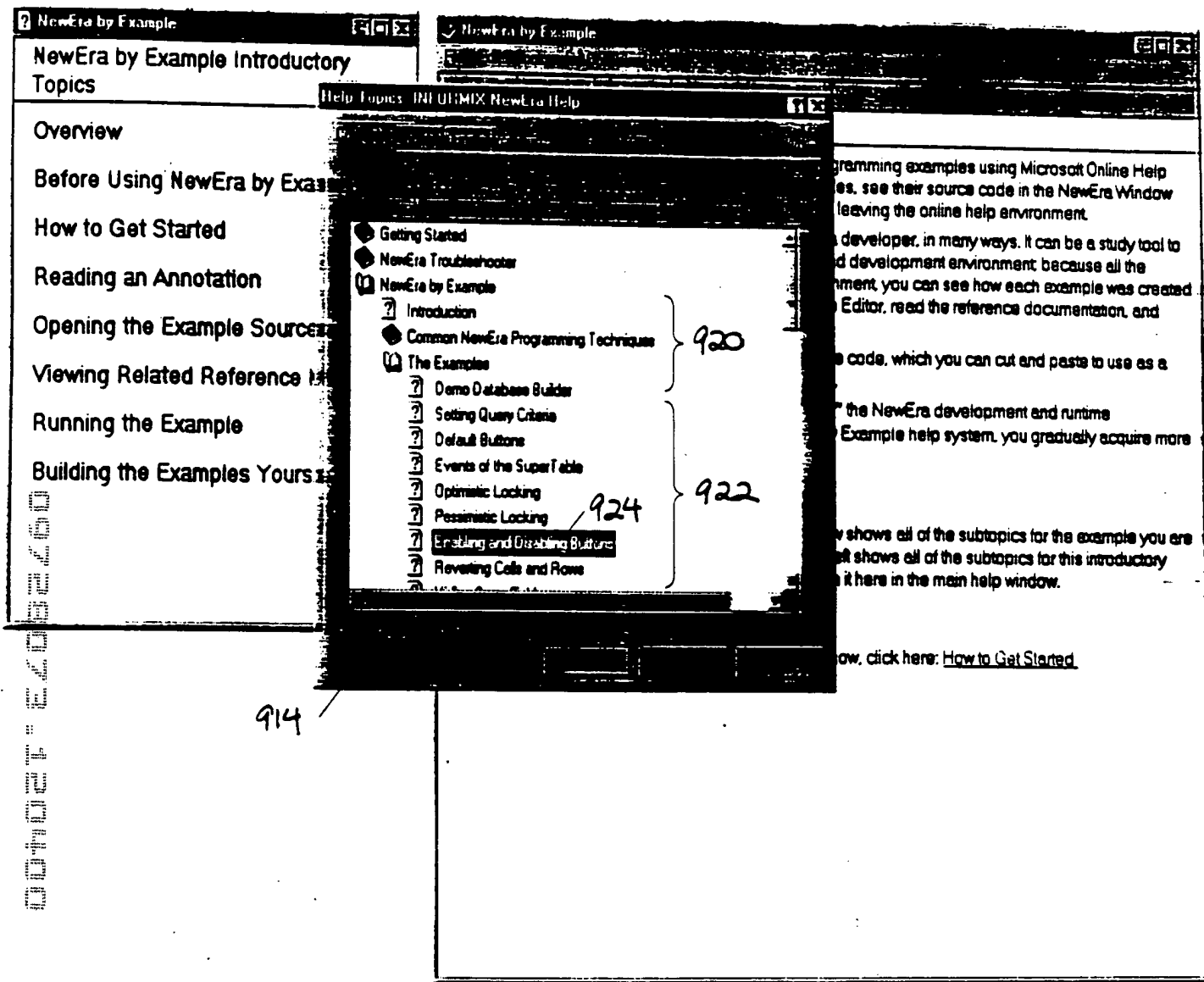


Fig. 9C



900044027-24032260 904

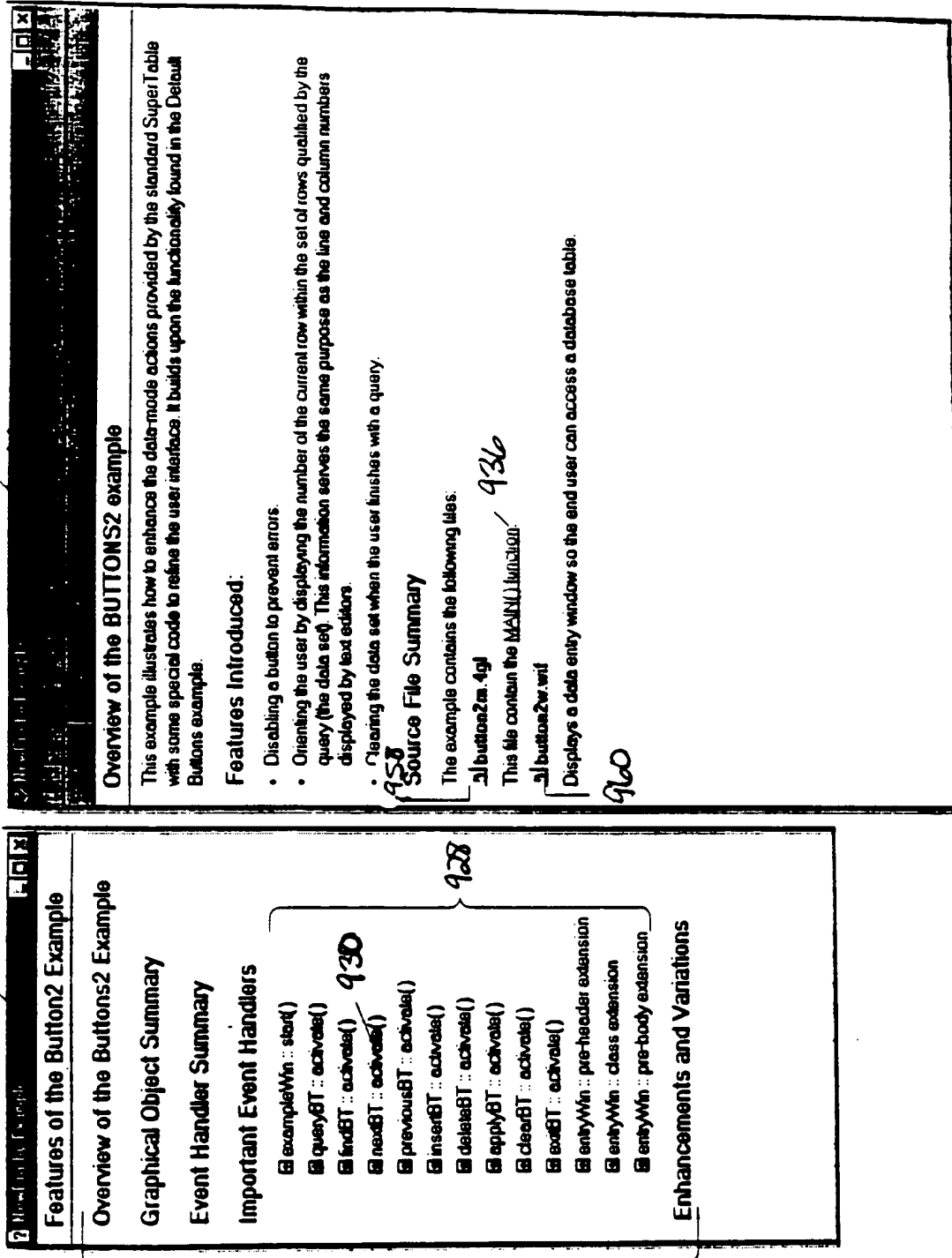


Fig. 9D

904

NewEra by Example

nextBT :: activate() 934

The activate handler for the Next button.

1) button2w.wif - in nextBT handler for ixButton::activate event

---

VARIABLE ok BOOLEAN  
 VARIABLE SuperTable ixSuperTable  
 VARIABLE rowPosition INTEGER

LET SuperTable = (getVisualContainer() CAST ixSuperTable) 932

LET rowPosition = SuperTable.getCurrRowNum() + 1

Get the number of rows for the current displayMode:

IF rowPosition > SuperTable.getNumStoredRows(NULL) THEN 932  
 LET rowPosition = ixSuperTable::lastRow  
 END IF

Don't do anything w/ the return status:

LET ok = SuperTable.setCurrentCell(rowPosition, ixSuperTable::currentColumn) 932

Set the button states:

CALL (getWindow() CAST exampleWin).resetSuperTableButtons( ) 932

Show the current row position:

CALL (getWindow() CAST exampleWin).showRowInfo( ) 932

Fig. 4E

NewFra by Example

The MAIN( ) FUNCTION

button2m.4gl:

MAIN

944 VARIABLE exampleWindow exampleWin  
CALL ixSQLConnect::getImplicitConnection().connect("Sports")  
942 LET exampleWindow = NEW exampleWin()  
CALL exampleWindow.open()

RETURN

END MAIN

Parameter	Value	Unit
Temperature	25.0	°C
Pressure	1.0	atm
Flow rate	1.0	L/min
Sample concentration	0.1	g/L
Sample volume	1.0	L
Sample weight	0.1	g
Sample size	0.1	mm
Sample shape	0.1	mm
Sample color	0.1	mm
Sample texture	0.1	mm
Sample density	0.1	g/cm <sup>3</sup>
Sample viscosity	0.1	Pa·s
Sample conductivity	0.1	S/cm
Sample refractive index	0.1	mm
Sample absorbance	0.1	mm
Sample transmittance	0.1	mm
Sample reflectance	0.1	mm
Sample emissivity	0.1	mm
Sample permeability	0.1	mm
Sample porosity	0.1	mm
Sample surface area	0.1	mm <sup>2</sup>
Sample volume fraction	0.1	mm <sup>3</sup>
Sample mass fraction	0.1	mm <sup>3</sup>
Sample molar fraction	0.1	mm <sup>3</sup>
Sample weight fraction	0.1	mm <sup>3</sup>
Sample mole fraction	0.1	mm <sup>3</sup>
Sample mass fraction	0.1	mm <sup>3</sup>
Sample molar fraction	0.1	mm <sup>3</sup>
Sample weight fraction	0.1	mm <sup>3</sup>
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Sample molar fraction	0.1	mm <sup>3</sup>
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Sample mole fraction	0.1	mm <sup>3</sup>
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Sample weight fraction	0.1	mm <sup>3</sup>
Sample mole fraction	0.1	mm <sup>3</sup>
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Sample mass fraction	0.1	mm <sup>3</sup>
Sample molar fraction	0.1	mm <sup>3</sup>
Sample weight fraction	0.1	mm <sup>3</sup>
Sample mole fraction	0.1	mm <sup>3</sup>
Sample mass fraction	0.1	mm <sup>3</sup>
Sample molar fraction	0.1	mm <sup>3</sup>
Sample weight fraction	0.1	mm <sup>3</sup>
Sample mole fraction	0.1	mm <sup>3</sup>
Sample mass fraction	0.1	mm <sup>3</sup>
Sample molar fraction	0.1	mm <sup>3</sup>
Sample weight fraction	0.1	mm <sup>3</sup>
Sample mole fraction	0.1	mm <sup>3</sup>
Sample mass fraction	0.1	mm <sup>3</sup>
Sample molar fraction	0.1	mm <sup>3</sup>
Sample weight fraction	0.1	mm <sup>3</sup>
Sample mole fraction	0.1	mm <sup>3</sup>
Sample mass fraction	0.1	mm <sup>3</sup>
Sample molar fraction	0.1	mm <sup>3</sup>
Sample weight fraction	0.1	mm <sup>3</sup>
Sample mole fraction	0.1	mm <sup>3</sup>
Sample mass fraction	0.1	mm <sup>3</sup>
Sample molar fraction	0.1	mm <sup>3</sup>
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Sample mole fraction	0.1	mm <sup>3</sup>
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Sample molar fraction	0.1	mm <sup>3</sup>
Sample weight fraction	0.1	mm <sup>3</sup>
Sample mole fraction	0.1	mm <sup>3</sup>
Sample mass fraction	0.1	mm <sup>3</sup>
Sample molar fraction	0.1	mm <sup>3</sup>
Sample weight fraction	0.1	mm <sup>3</sup>
Sample mole fraction	0.1	mm <sup>3</sup>
Sample mass fraction	0.1	mm <sup>3</sup>
Sample molar fraction	0.1	mm <sup>3</sup>
Sample weight fraction	0.1	mm <sup>3</sup>
Sample mole fraction	0.1	mm <sup>3</sup>
Sample mass fraction	0.1	mm <sup>3</sup>
Sample molar fraction	0.1	mm <sup>3</sup>
Sample weight fraction	0.1	mm <sup>3</sup>
Sample mole fraction	0.1	mm <sup>3</sup>
Sample mass fraction	0.1	mm <sup>3</sup>
Sample molar fraction	0.1	mm <sup>3</sup>
Sample weight fraction	0.1	mm <sup>3</sup>
Sample mole fraction</		

000007-04000000

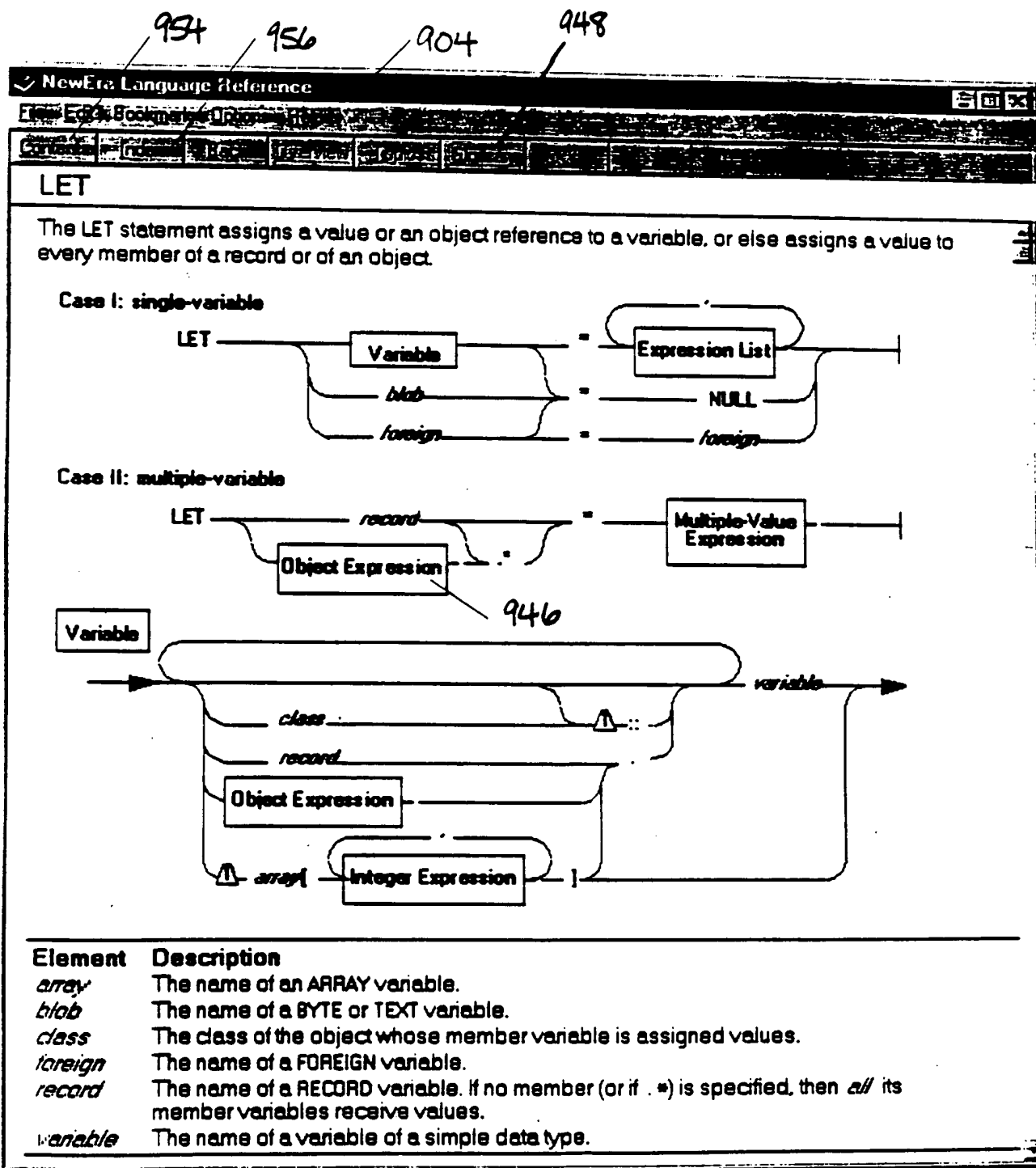


Fig. 9G

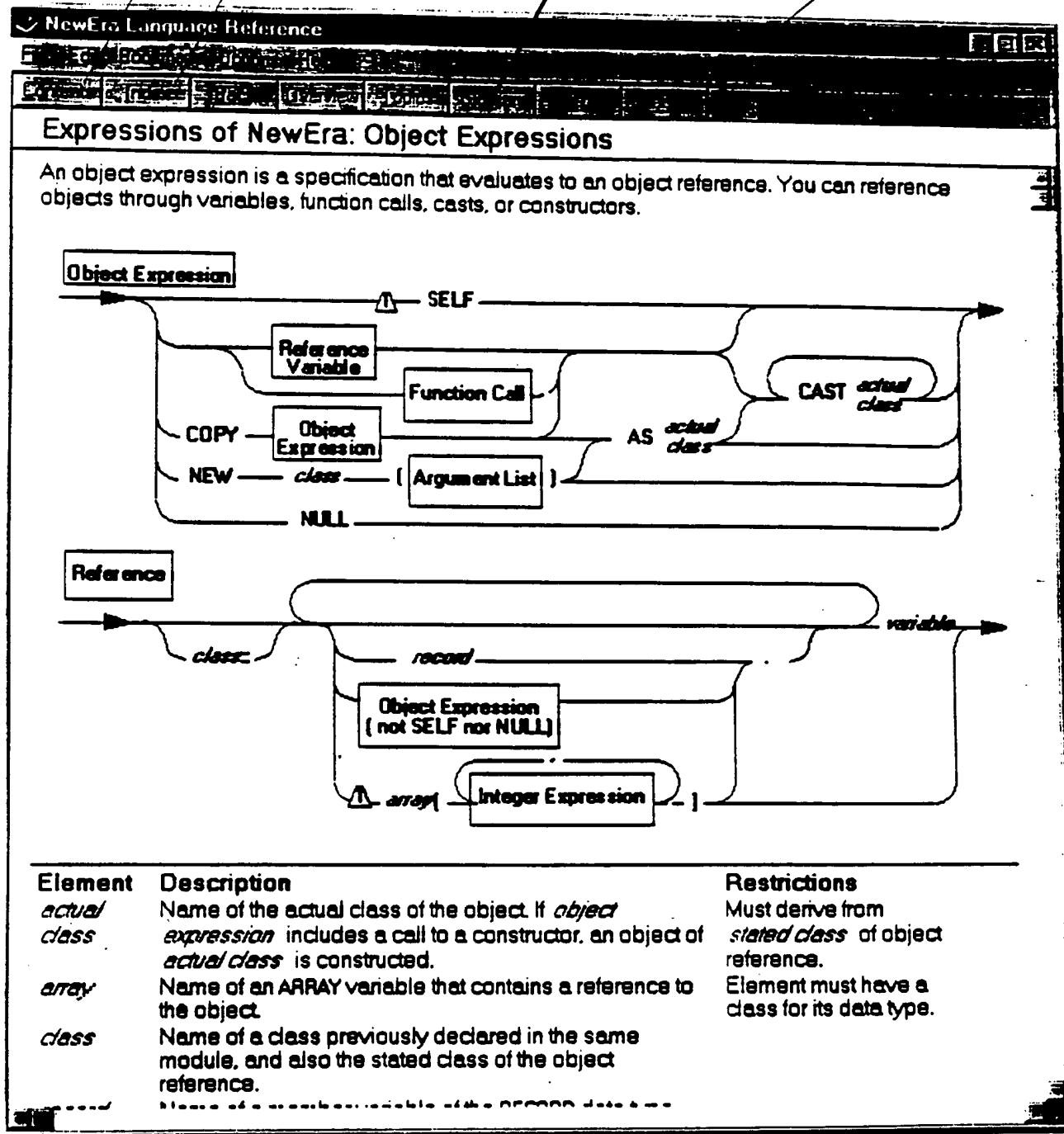


Fig. 9H

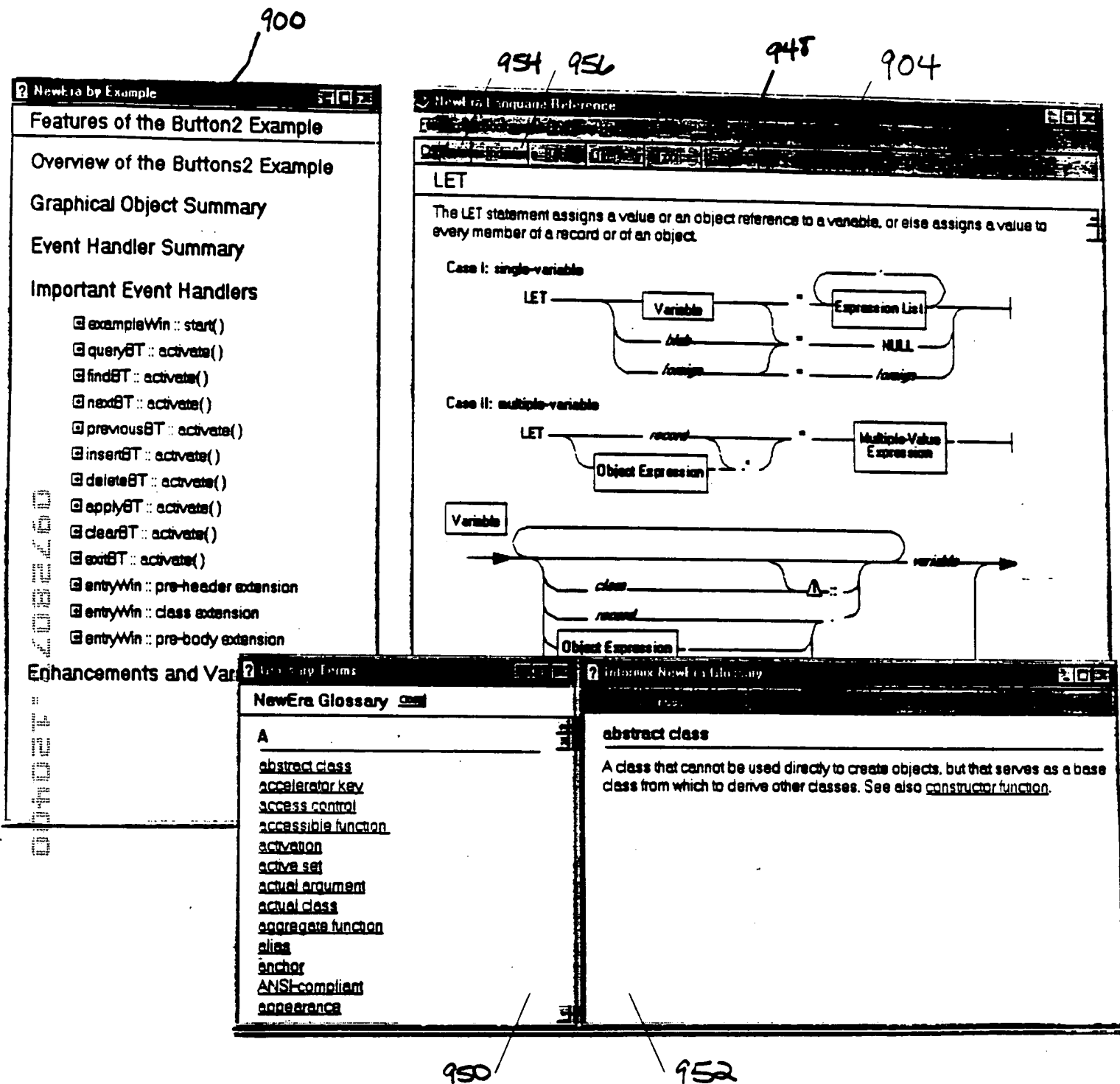


Fig. 9I

Codewright for NewEra

File Edit Search Project Tools Window Help

00720073-120

C:\NewEra3\0examples\buttons2\button2m.4gl

```
INCLUDE "annotate.4gh"  
INCLUDE SYSTEM "ixconn.4gh"  
INCLUDE "button2w.4gh"  
  
MAIN  
  VARIABLE exampleWindow exampleWin  
  CALL nebyex::annotate(buttons2_MAIN)  
  CALL ixSQLConnect::getImplicitConnection().connect("Sports")  
  LET exampleWindow = NEW exampleWin()  
  CALL exampleWindow.open()  
  
  RETURN  
  
END MAIN
```

NewEra by Example

Line: 5 Col: 1

Fig. 4J

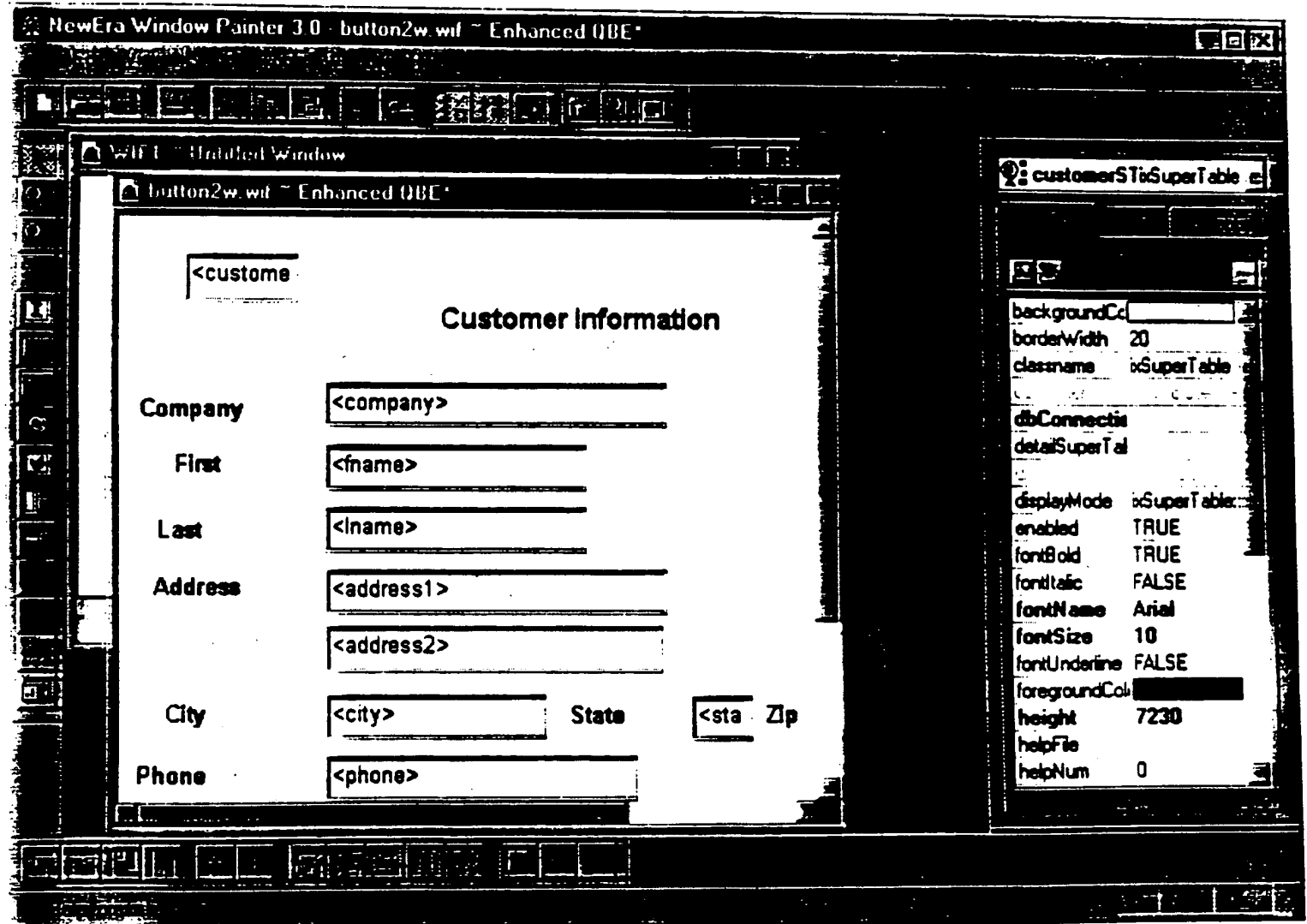


Fig. 4K



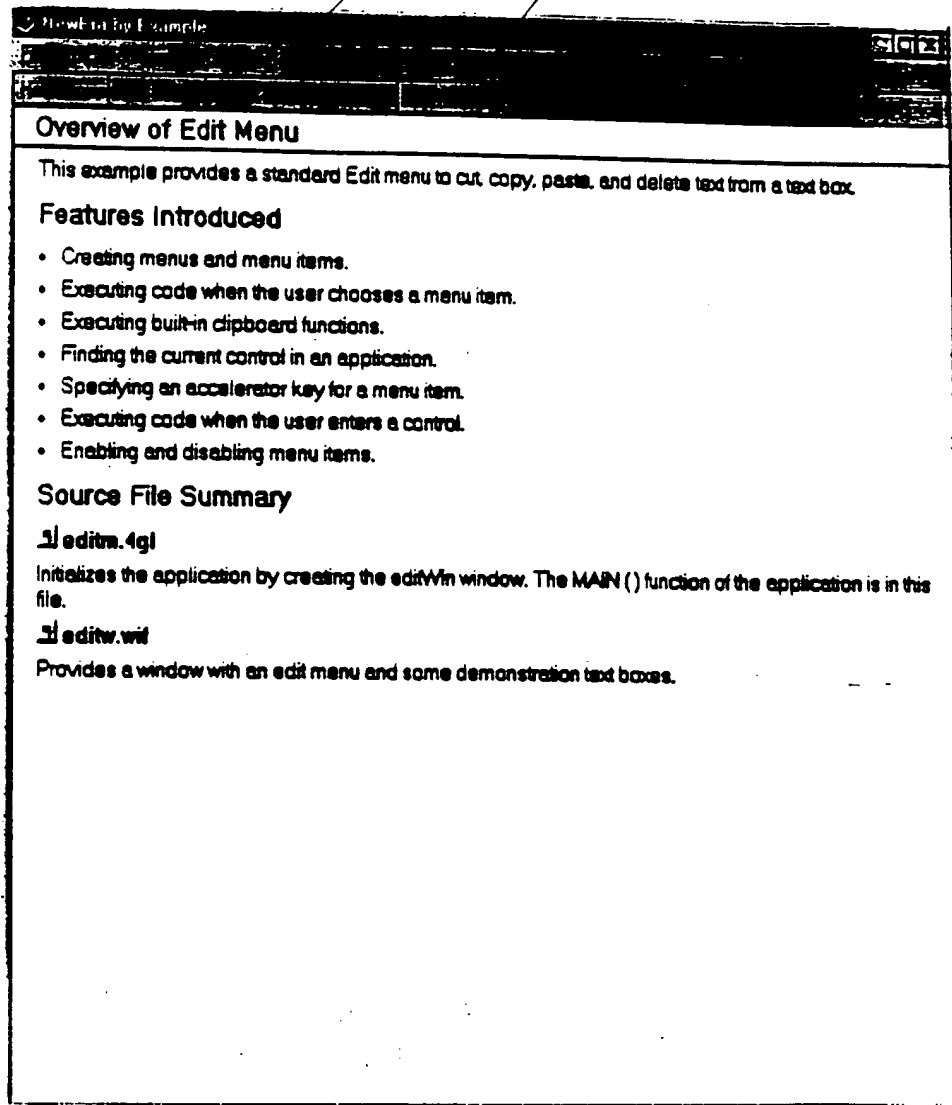
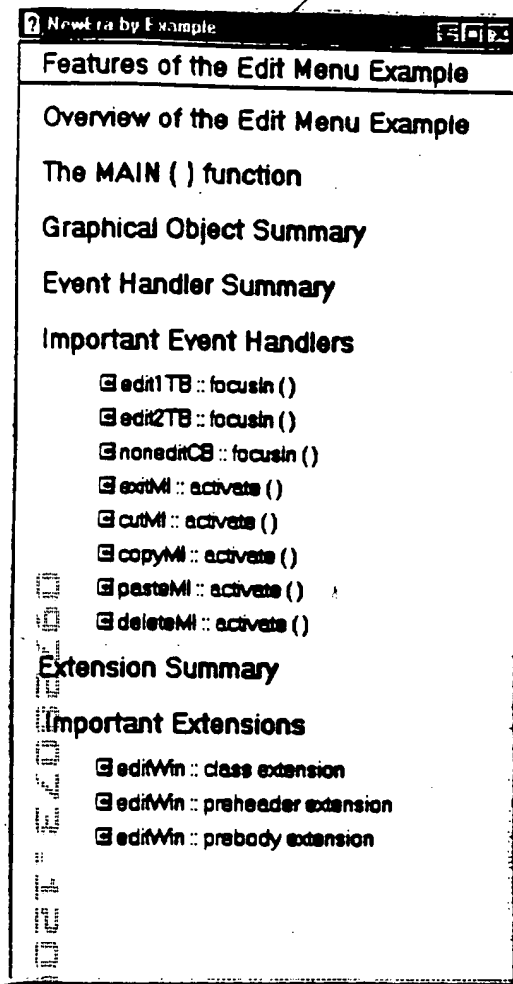
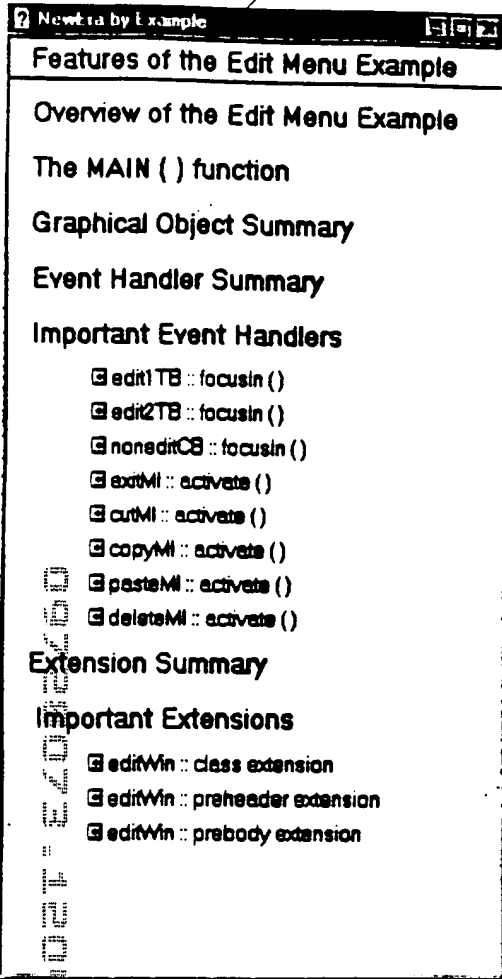


Fig. 9L

900



904

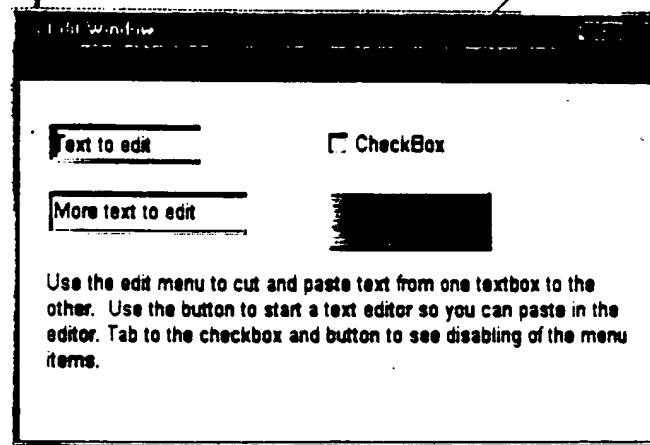
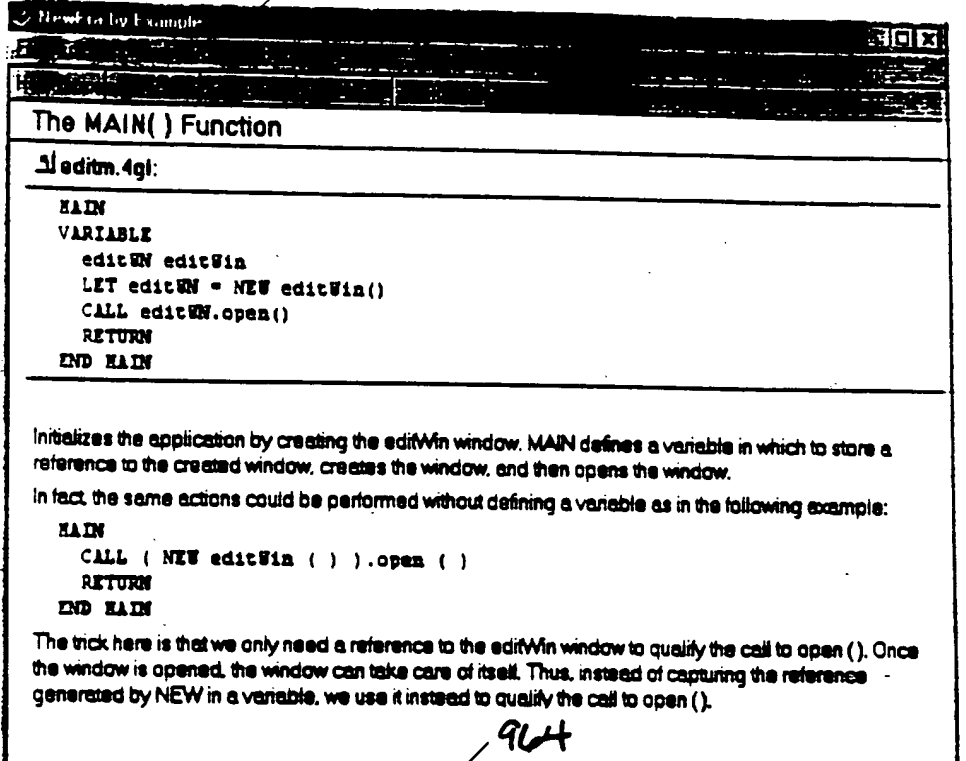


Fig. 9M

900

2 NewEra by Example
Features of the Edit Menu Example
Overview of the Edit Menu Example
The MAIN ( ) function
Graphical Object Summary
Event Handler Summary
Important Event Handlers
<input type="checkbox"/> edit1TB :: focusin ( ) <input type="checkbox"/> edit2TB :: focusin ( ) <input type="checkbox"/> noneEditCB :: focusin ( ) <input type="checkbox"/> editMI :: activate ( ) <input type="checkbox"/> cutMI :: activate ( ) <input type="checkbox"/> copyMI :: activate ( ) <input type="checkbox"/> pasteMI :: activate ( ) <input type="checkbox"/> deleteMI :: activate ( )
Extension Summary
Important Extensions
<input type="checkbox"/> editWin :: class extension <input type="checkbox"/> editWin :: preheader extension <input type="checkbox"/> editWin :: prebody extension

904

2 NewEra by Example
edit1TB :: focusin ( )
editw.win - in edit1TB handler for xTextBox.focusin event
VARIABLE win editWin = getWindow()  CALL win.setEditItemsEnabled( SELF )
LET editWin = getWindow ( )  In the handler of the window, the members of the window are in scope. The members in scope include the graphical objects that you paint within the window.  In the handlers of other graphical objects, however, the members of the window are not in scope. You have to qualify a member with a reference to the window.  Each graphical object has the getWindow ( ) member function, which conveniently returns a reference to the window. You can capture the reference in a local variable of the handler.  CALL win.setEditItemsEnabled( TRUE )  The example uses the reference to qualify the call to the setEditItemsEnabled ( ) function. The call passes the TRUE parameter to enable the editing menu items while the user is in the text box.

904

Text Window
<div style="display: flex; justify-content: space-between;"> <div> <p>Text to edit 906</p> <p>More text to edit 908</p> </div> <div> <p>910</p> <p>CheckBox</p> </div> </div>
Use the edit menu to cut and paste text from one textbox to the other. Use the button to start a text editor so you can paste in the editor. Tab to the checkbox and button to see disabling of the menu items.

Fig. 9N

2	Newtra by Example
Features of the Edit Menu Example	
Overview of the Edit Menu Example	
The MAIN ( ) function	
Graphical Object Summary	
Event Handler Summary	
Important Event Handlers	
3	edit1TB :: focusin ( )
3	edit2TB :: focusin ( )
3	noneditCB :: focusin ( )
3	extMI :: activate ( )
3	cutMI :: activate ( )
3	copyMI :: activate ( )
3	pasteMI :: activate ( )
3	deleteMI :: activate ( )
Extension Summary	
Important Extensions	
3	editWin :: class extension
3	editWin :: preheader extension
3	editWin :: prebody extension

Newtra by Example

edit2TB :: focusin ( )

1

editw.wit - in edit2TB handler for edit2TB.focusin event

VARIABLE

win editWin = getWindow()

CALL win.setEditItemsEnabled( SELF )

Calls the setEditItemsEnabled ( ) function to enable the editing menu items when the user enters the text box. See also the discussion of edit1TB.focusin ( ).

edit window

Text to edit

More text to edit

966

968

470

CheckBox

Use the edit menu to cut and paste text from one textbox to the other. Use the button to start a text editor so you can paste in the editor. Tab to the checkbox and button to see disabling of the menu items.

Fig. 90

2	New to by Example
Features of the Edit Menu Example	
Overview of the Edit Menu Example	
The MAIN ( ) function	
Graphical Object Summary	
Event Handler Summary	
Important Event Handlers	
3	edit1TB :: focusin ( )
3	edit2TB :: focusin ( )
3	noneditCB :: focusin ( )
3	editMI :: activate ( )
3	cutMI :: activate ( )
3	copyMI :: activate ( )
3	pasteMI :: activate ( )
3	deleteMI :: activate ( )
Extension Summary	
Important Extensions	
3	editWin :: class extension
3	editWin :: preheader extension
3	editWin :: prebody extension

New to by Example

noneditCB :: focusin ( )

editw.wit - in noneditCB handler for aCheckBox.focusin event

VARIABLE

win editWin = getWindow()

CALL win.setEditItemsEnabled( SELF )

Works in the same way as the edit1TB.focusin ( ), but passes the FALSE parameter to disable the editing menu items while the user is in the check box.

Calls the setEditItemsEnabled ( ) function to disable the editing menu items when the user enters the check box. The user cannot paste into a check box.

Edit window

Text to edit

More text to edit

Use the edit menu to cut and paste text from one textbox to the other. Use the button to start a text editor so you can paste in the editor. Tab to the checkbox and button to see disabling of the menu items.

Fig. 9P

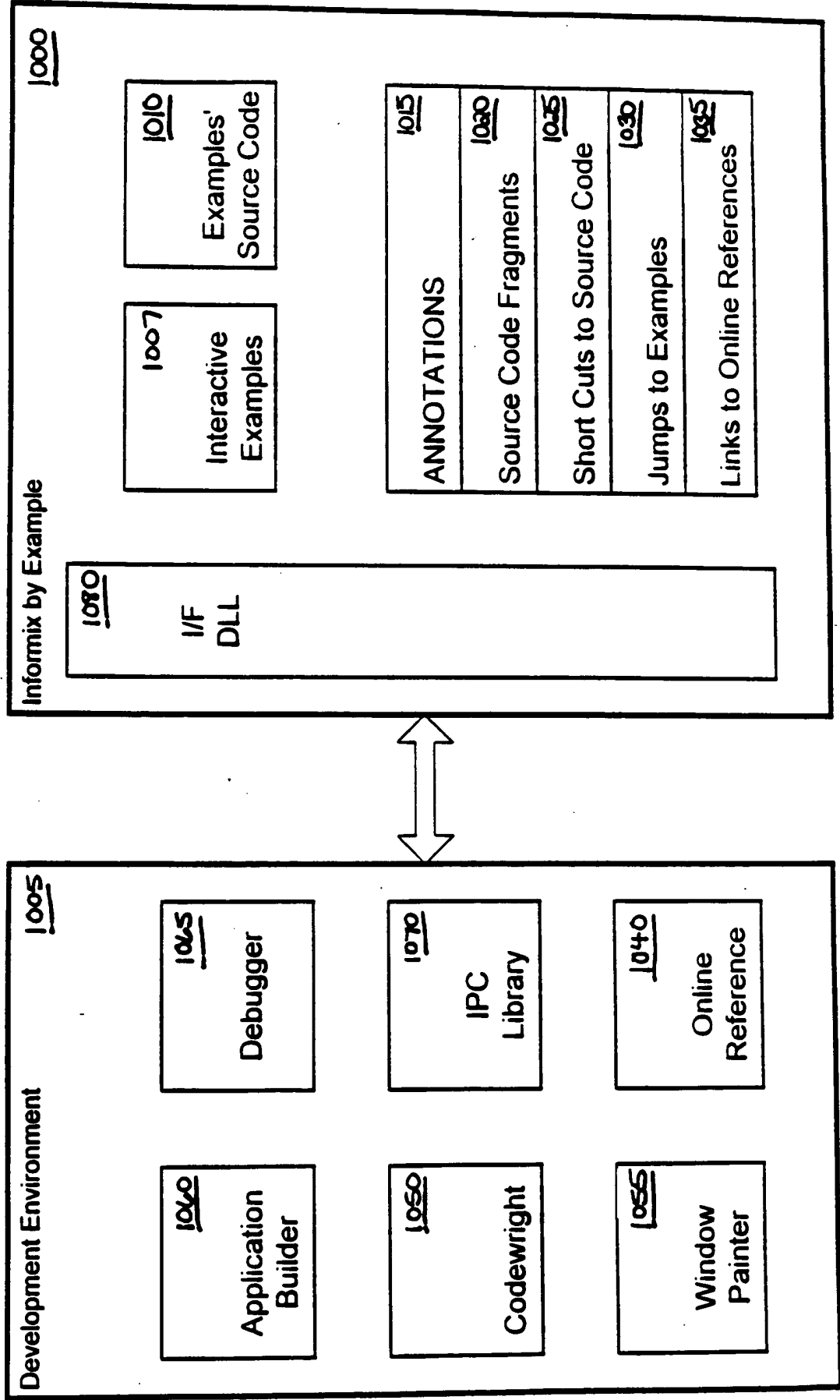


Fig. 10

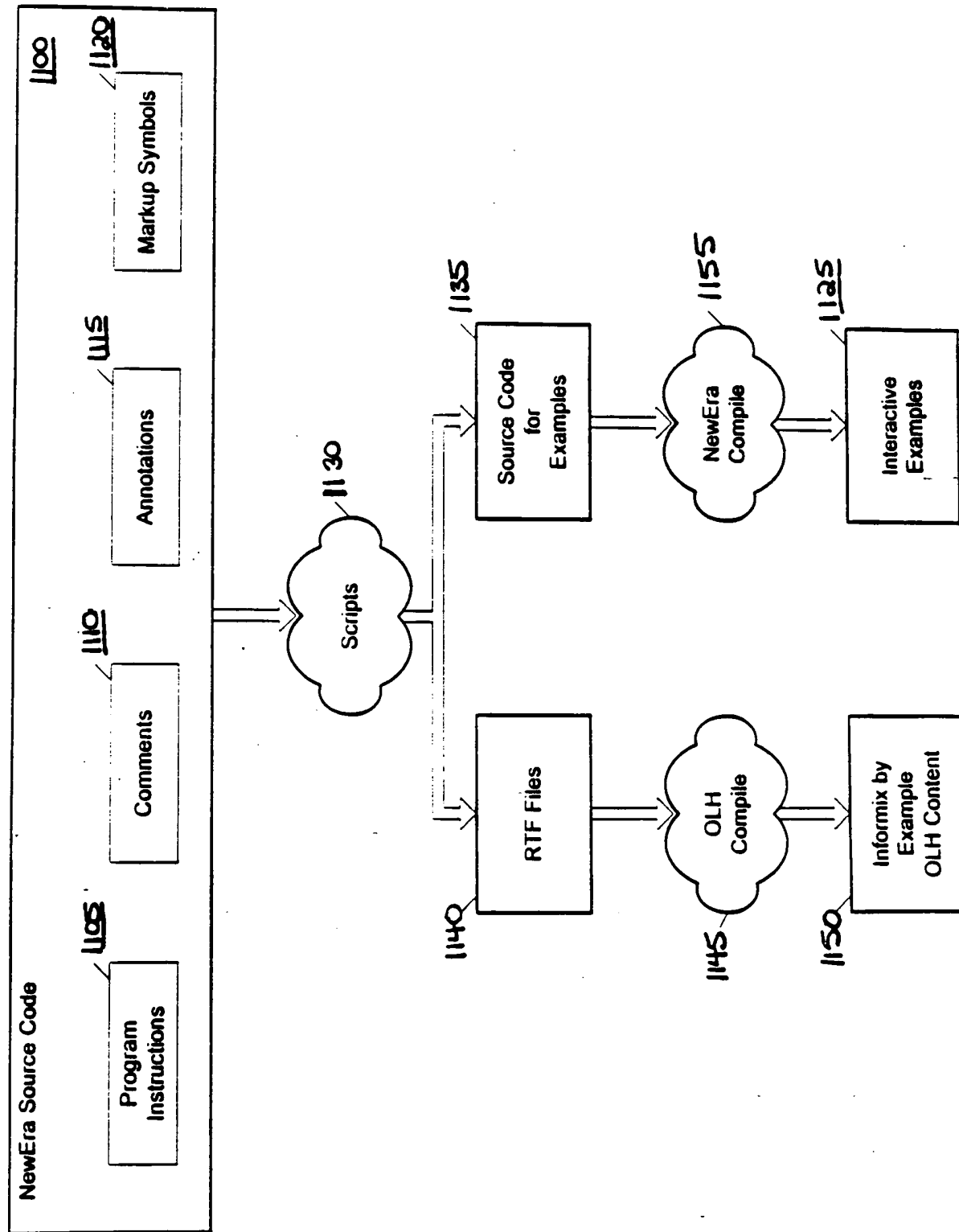


Fig. 11

001027-24032260

```

FUNCTION driveStockRpt( destType SMALLINT, destName CHAR(*) ) RETUR
1200 NING VOID
{.normal
  Since objects, in particular ixRow objects, cannot be passed
  as arguments to the report formatter, rows of fetched data will
  be unpacked into a record that matches the data types and lengths
  of elements in the fetched rows.
}
VARIABLE
  stockRec RECORD
    mn CHAR(15),      -- manufact.manu_name
    sn SMALLINT,      -- stock.stock_num
    sd CHAR(15),      -- stock.description
    sp MONEY(6,2),    -- stock.unit_price
    su CHAR(4)        -- stock.unit
  END RECORD,

  stockStmt ixSQLStmt,
  stmtString CHAR(*),
  stockRow ixRow,

  errorCode INTEGER,
  logFile ixErrorLog

1205 {.normal
  Use the implicit connection object to create an SQL statement
  object. The connection object must already be connected to a
  database.
  Checking the status of the prepare( ) call will confirm this.
1210 }
{.[edit stmt]
  LET stockStmt =
1215 ixSQLConnect::getImplicitConnection().createStmtObject()
{.[file stmt]

```

**Fig. 12**



004027-2022-00

1300

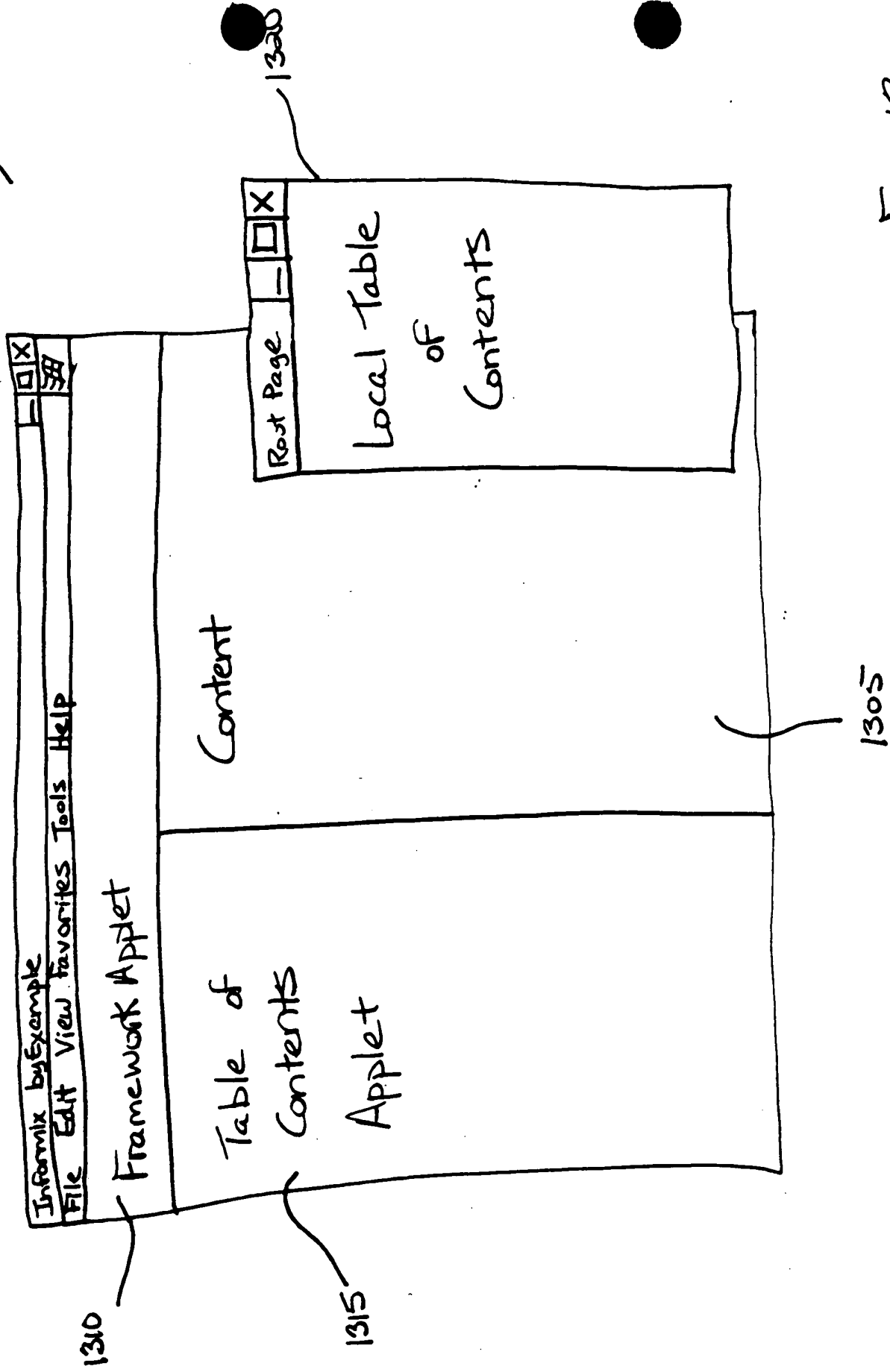


Fig. 13

1300

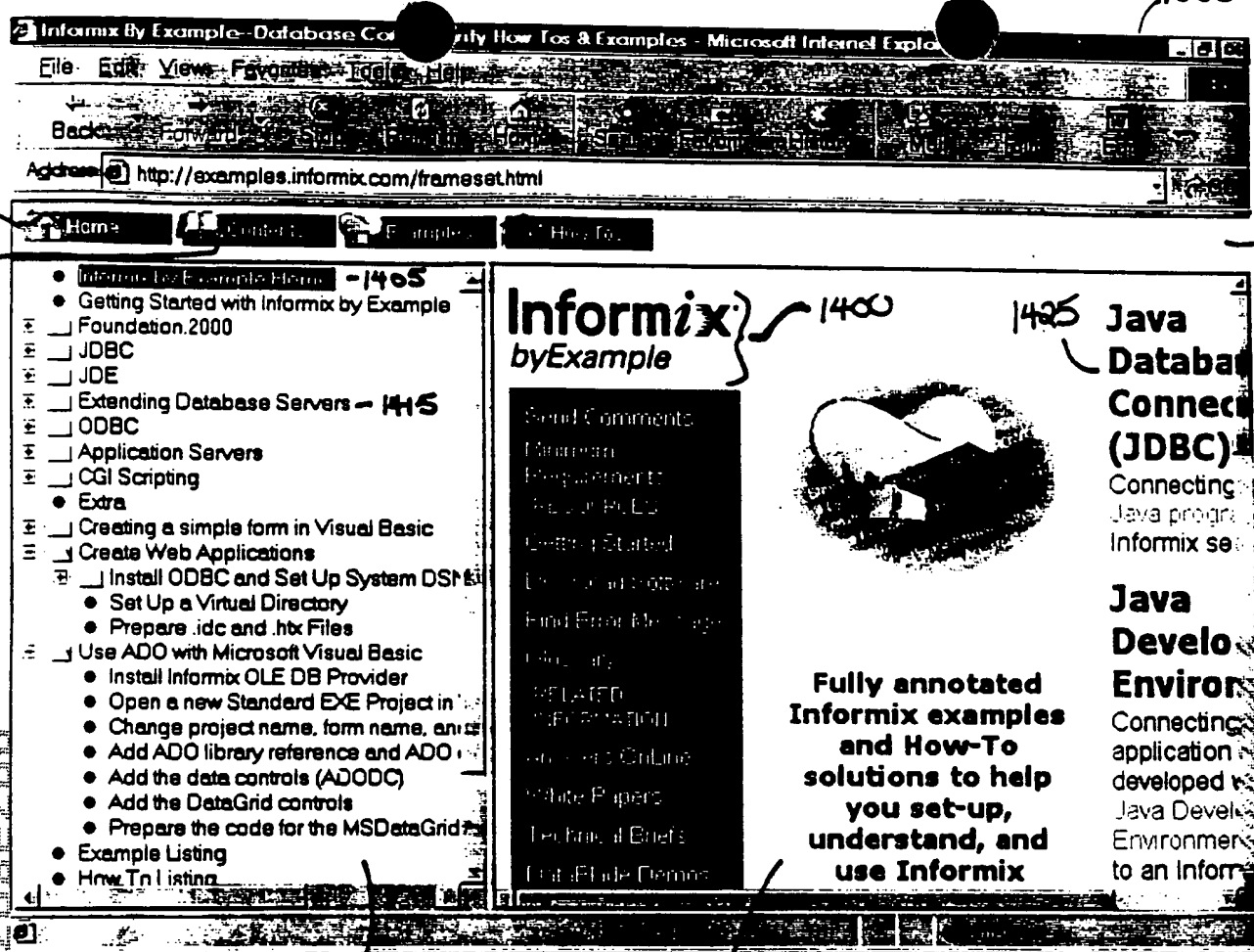


Fig. 14A

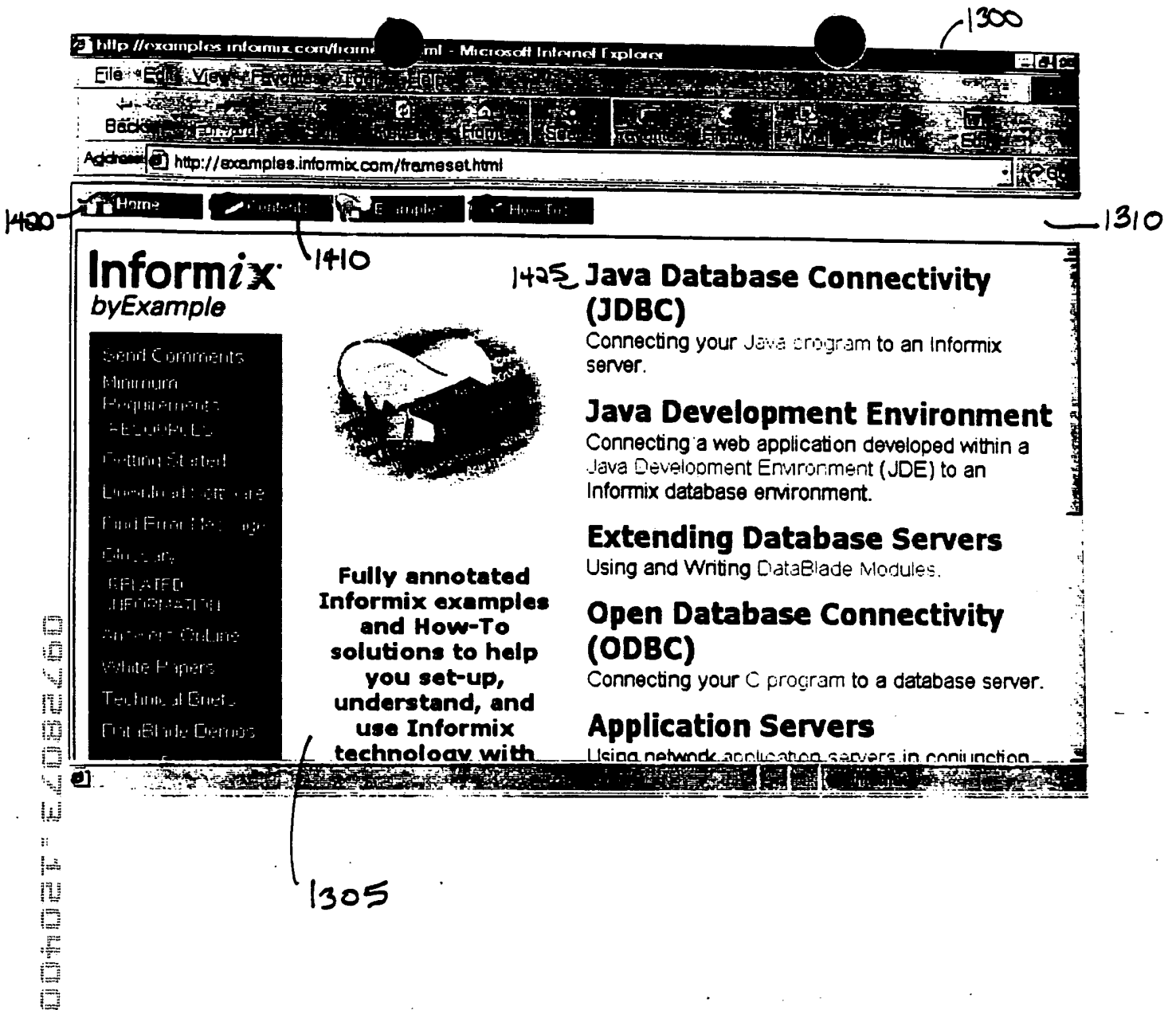


Fig. 14B

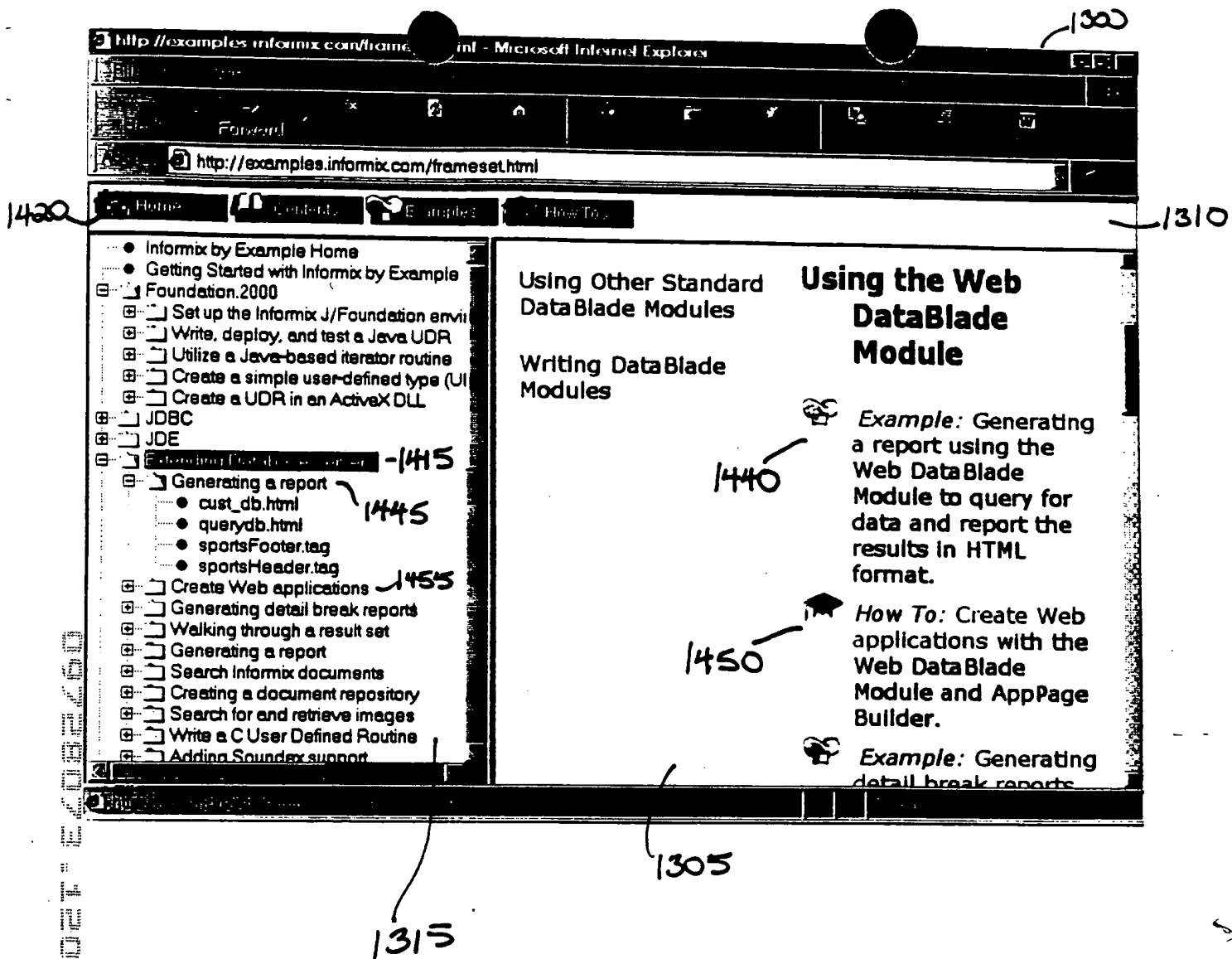
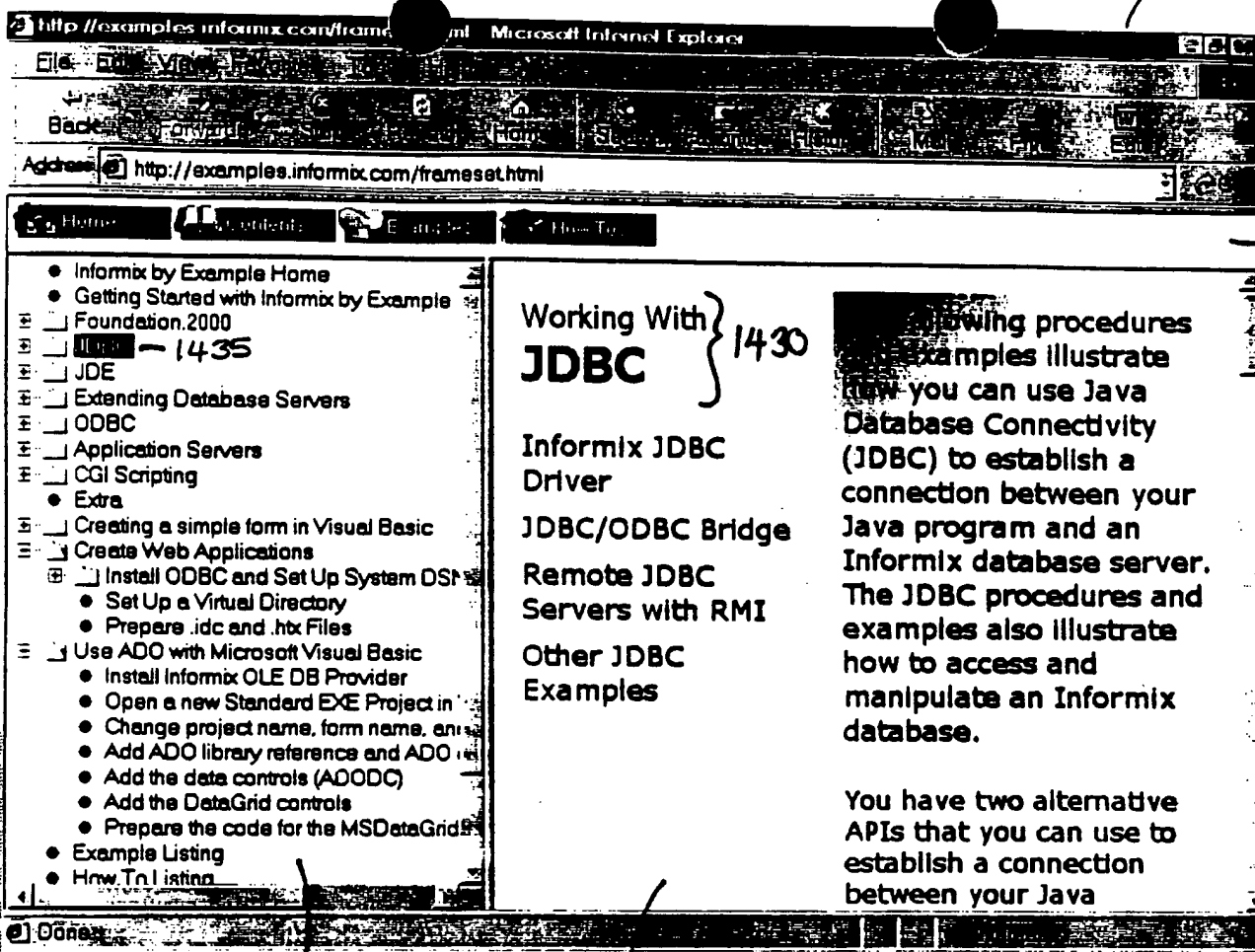


Fig. 14C



004027-1202260

1300

http://examples.informix.com/frameset.html - Microsoft Internet Explorer

Address http://examples.informix.com/frameset.html


1570

1310

1500

- Informix by Example Home
- Getting Started with Informix by Example
- Foundation.2000
  - Set up the Informix J/Foundation environment
  - Write, deploy, and test a Java UDR
  - Utilize a Java-based iterator routine
  - Create a simple user-defined type (UDT)
  - Create a UDR in an ActiveX DLL
- JDBC
- JDE
- Extending Database Servers
  - Customizing Reports**
    - [cust\\_db.html](#)
    - [querydb.html](#)
    - [sportsFooter.tag](#)
    - [sportsHeader.tag](#)
  - Create Web applications
  - Generating detail break reports
  - Walking through a result set
  - Generating a report
  - Search Informix documents
  - Creating a document repository
  - Search for and retrieve images
  - Write a C User Defined Routine
  - Adding Soundex support

## Generating a Report Using the Web Datablade Module



Contributed by Erik Hennum, byExample Team

Example report demonstrates how to use the Web DataBlade module to query for data and report the results in HTML format.

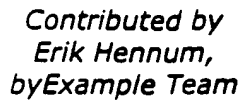
[cust\\_db.html](#)

1305

1315

Fig. 15A

1500



✓ 1505

1505

1505

1505

1505

 [Click here to view or print all of the source files for this example.](#)

Fig. 15B





## querydb.html File

This HTML page contains a form that invokes an app page instead of a CGI program to process the values in the form.

The sportsHeader dynamic tag creates a standard header for the HTML page as well as standard opening text.

<?sportsHeader title="Customer Query">

As its action, the form must specify the Web Driver utility.

<P>  
<FORM ACTION="<?MIVAR>WEB\_HOME<?/MIVAR" METHOD="GET">

To specify the app page, the form must use a hidden input component. The input component must have a name of **Mival** and a value that's the name of the app page. The input component below specifies the cust\_db.html app page.

<INPUT TYPE="HIDDEN" NAME="Mival" VALUE="/examples/CustRpt/cust\_db.html">

Optional state:

<INPUT TYPE="TEXT" NAME="selectState" SIZE="3" MAXLENGTH="2">

<INPUT TYPE="SUBMIT" NAME="Submit" VALUE="Submit">

</FORM>

</P>

</BODY>

</HTML>

Fig. 15D

```

<!-- <ibyx>
<intro>
<p><abstract>This HTML page contains a form that invokes
an app page</abstract> instead of a CGI program to process
the values in the form.
</p>
</intro>
</ibyx> -->

<!-- <ibyx>
<p>The sportsHeader dynamic tag creates a standard header
for the HTML page as well as standard opening text.
</p>
</ibyx> -->
<?sportsHeader title="Customer Query">

<!-- <ibyx>
<p>As its action, the form must specify the Web Driver utility.
</p>
</ibyx> -->
<P>
<FORM ACTION="<?MIVAR>$WEB_HOME<?/MIVAR>" METHOD="GET">

<!-- <ibyx>
<p>To specify the app page, the form must use a hidden input component.
The input component must have a name of <strong>Mival</strong> and
a value that's the name of the app page. The input component below
specifies the <a href="cust_db.html">cust_db.html</a> app page.
</p>
</ibyx> -->
<INPUT TYPE="HIDDEN" NAME="Mival" VALUE="/examples/CustRpt/cust_db.html">

Optional state:
<INPUT TYPE="TEXT" NAME="selectState" SIZE="3" MAXLENGTH="2">
<INPUT TYPE="SUBMIT" NAME="Submit" VALUE="Submit">

</FORM>
</P>

<?annotate>

</BODY>
</HTML>

```

} 1535

} 1535

1560

Fig. 15E

00000000-00000000

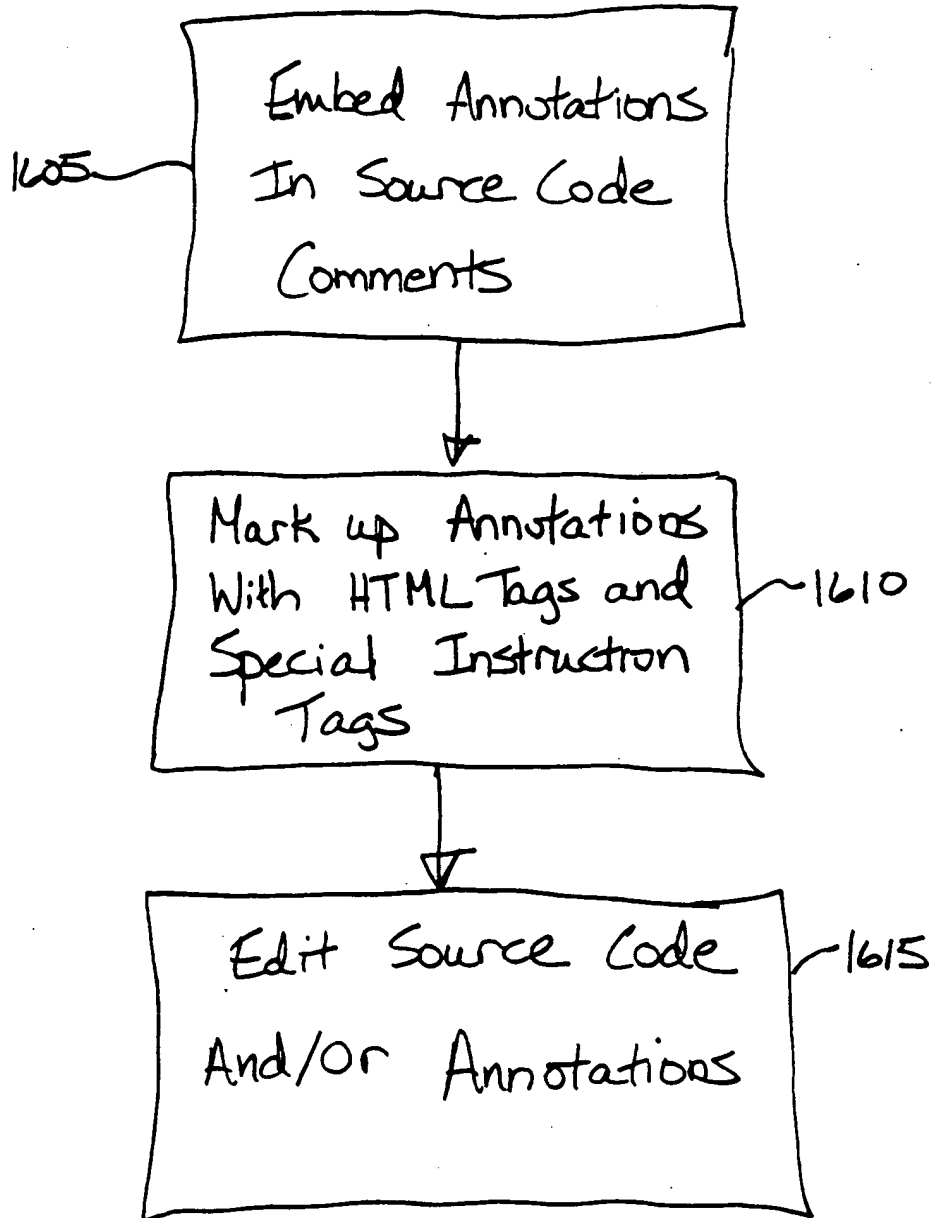


Fig. 16A

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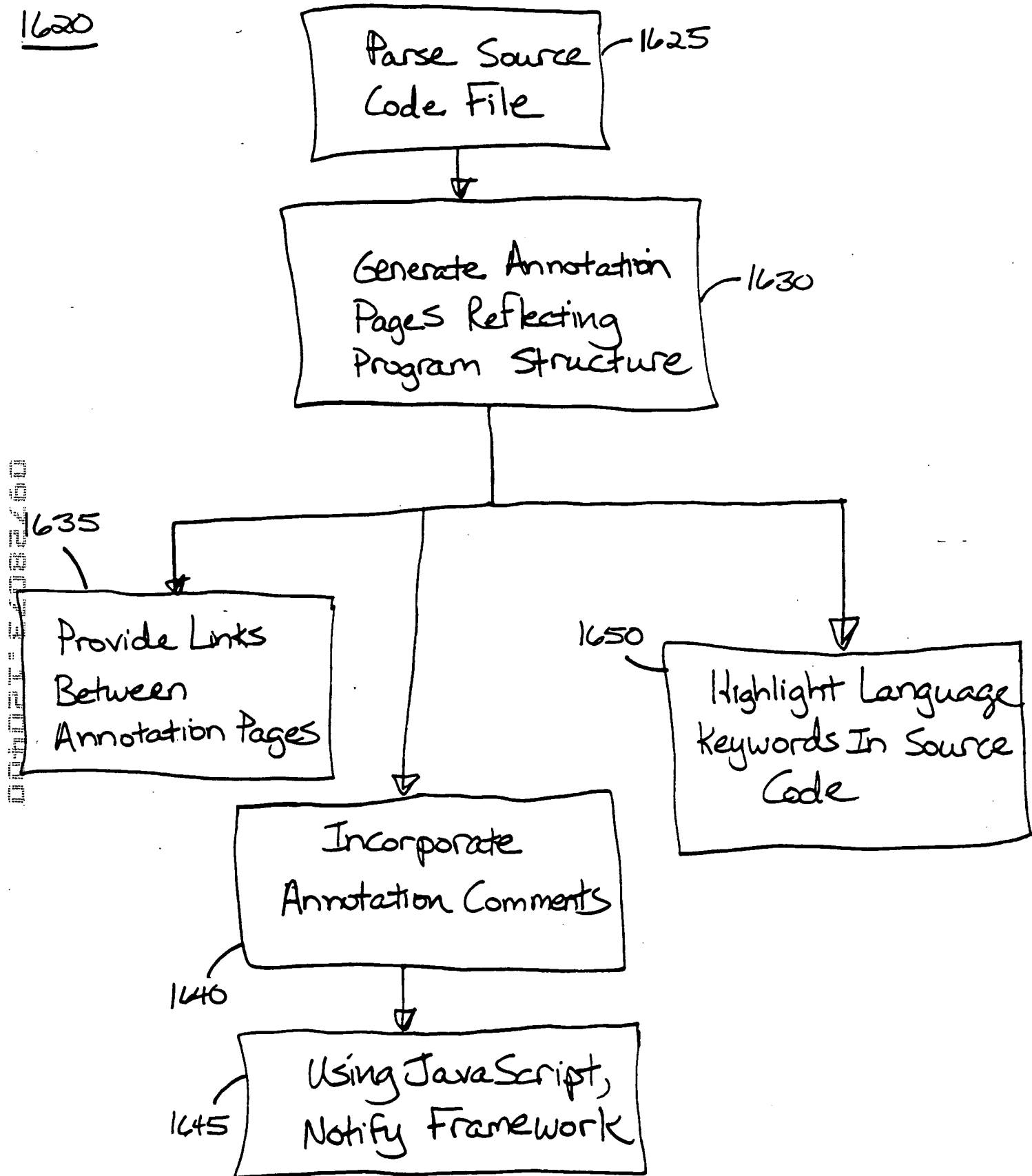


Fig. 16B

004027-2002260

1455

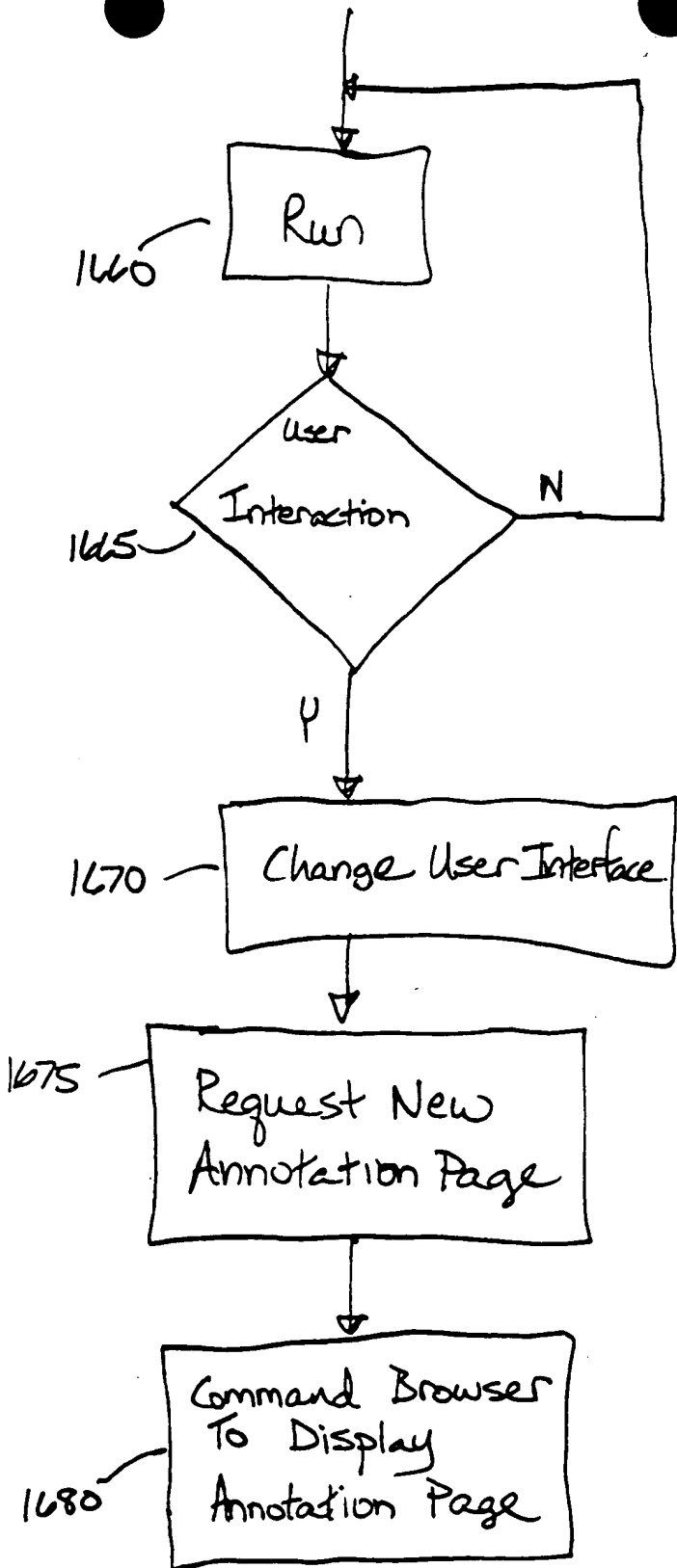


Fig. 16C

004027-20020600

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## sportsHeader.tag File

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The sportsHeader dynamic tag generates the an app page. This tag ensures that every HT which it is used will have a standard header.

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2//E
<HTML>
<HEAD>
  <META HTTP-EQUIV="Content-Type" CONTENT="te
```

The app page that uses this dynamic tag can title as a parameter. If the title is not supplied following block sets a default title.

Internet

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Fig. 17A

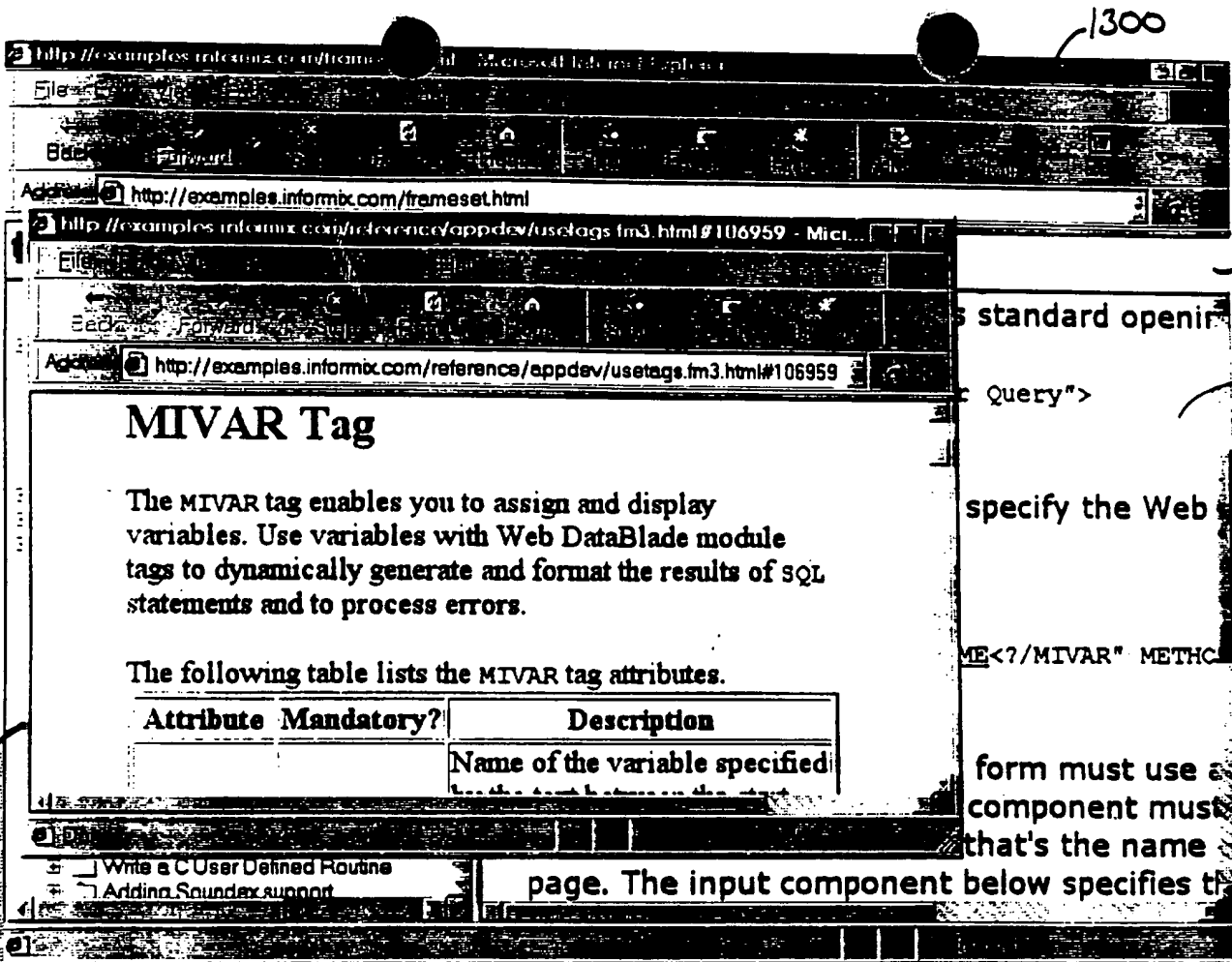


Fig. 17B

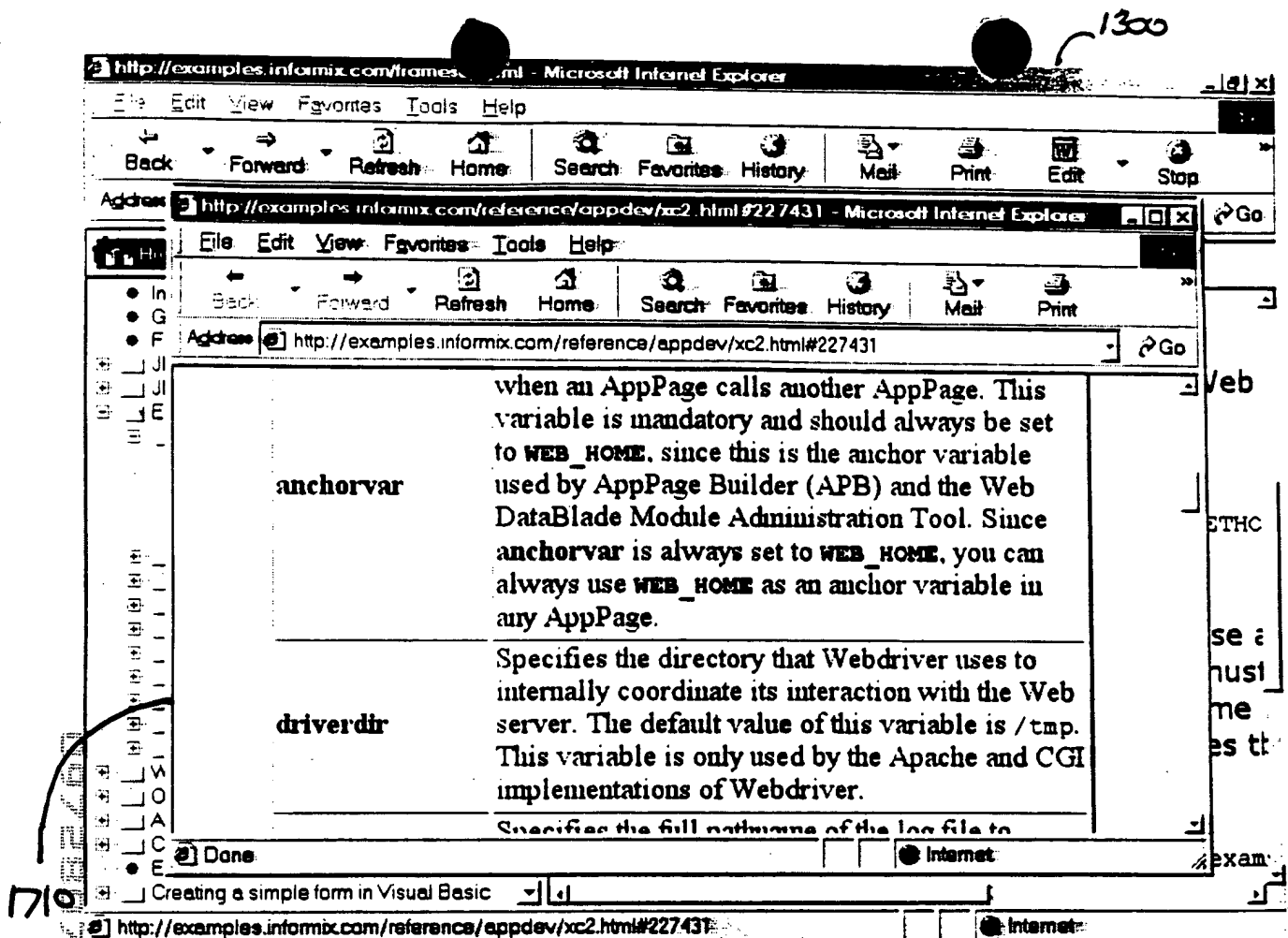
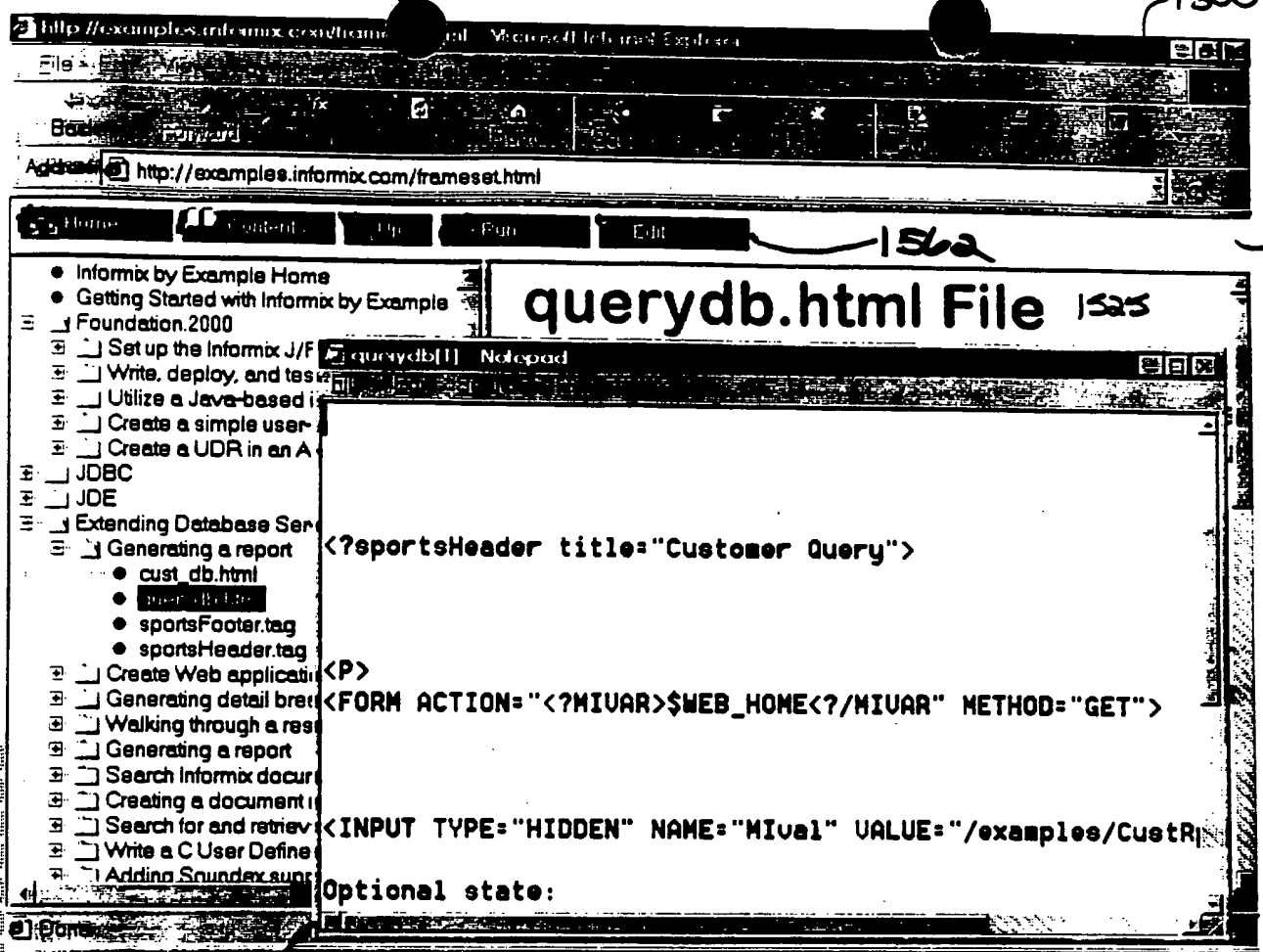


Fig. 17C



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Fig. 17D

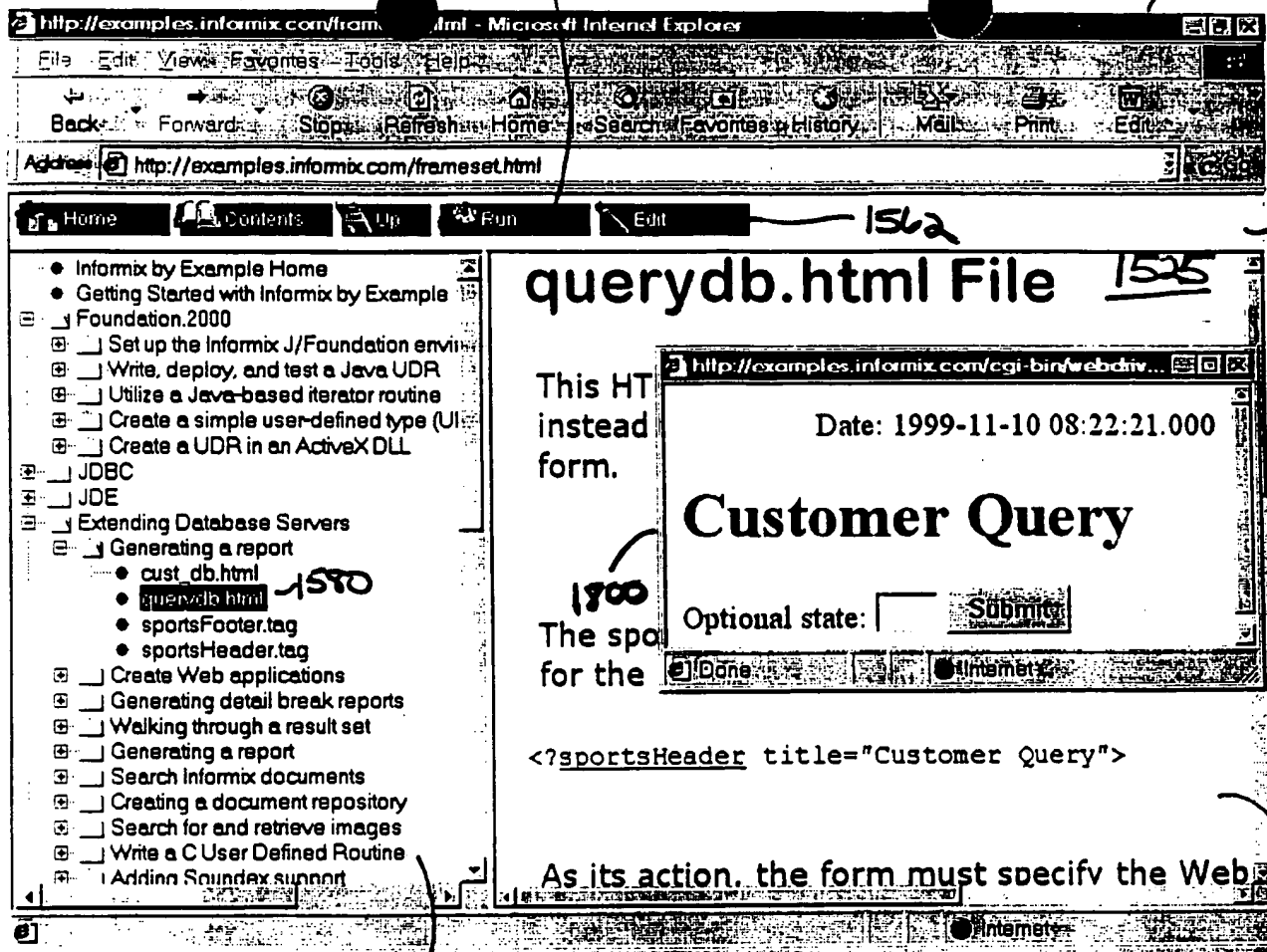


Fig. 18A

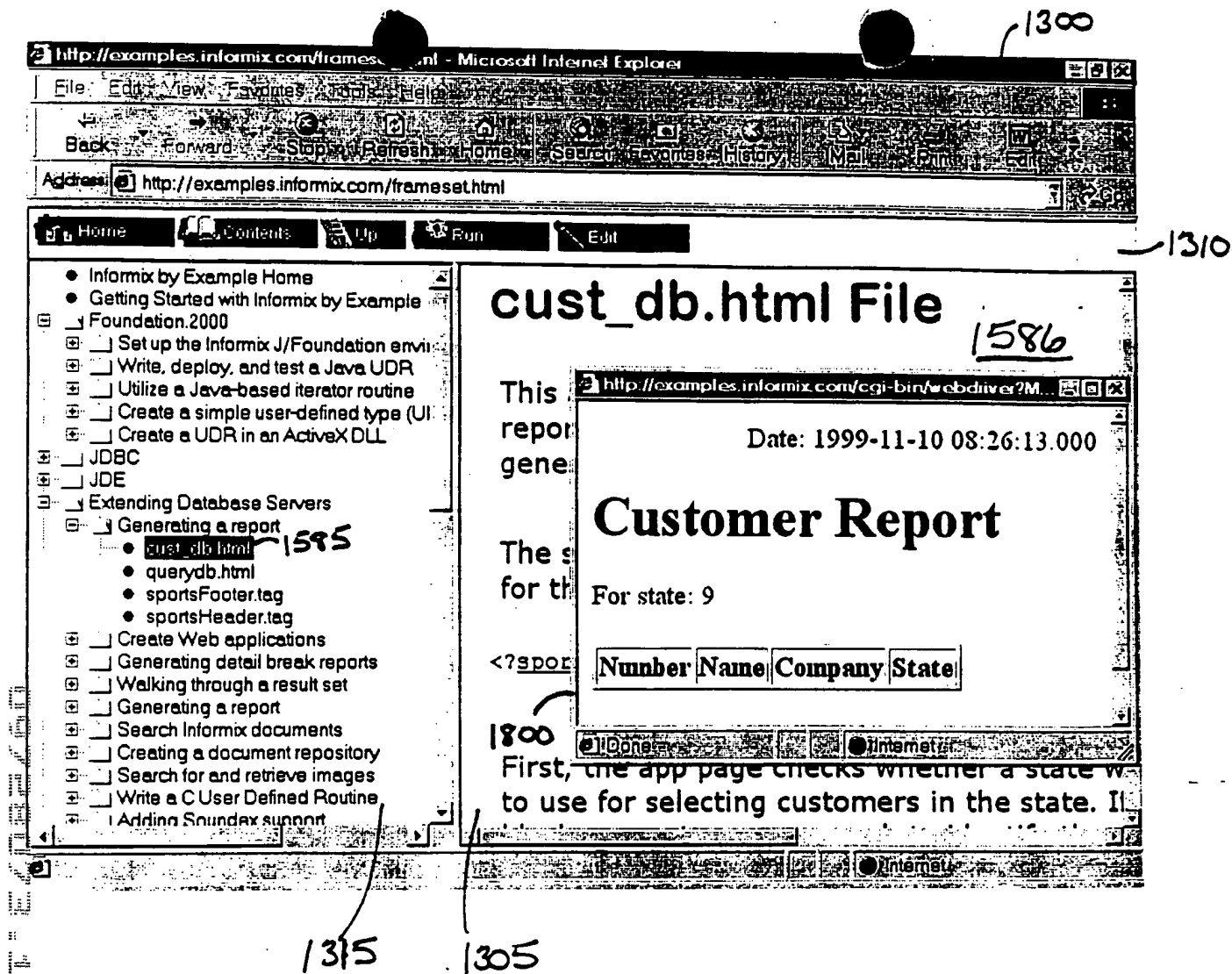


Fig. 18B

```

<!-- <ibyx>
<intro>
<p><abstract>This app page accepts a query and generates an HTML
report</abstract> in response.
The app page uses dynamic tags to generate the header and footer for the
HTML report.
</p>
</intro>
</ibyx> -->
<!-- <ibyx>
<p>The sportsHeader dynamic tag creates a standard header
for the HTML page as well as standard opening text.
</p>
</ibyx> -->
<?sportsHeader title="Customer Report">

<!-- <ibyx>
<p>First, the app page checks whether a state was specified to use for
selecting customers in the state. If so, the block generates a
paragraph to identify the state.
</p>
</ibyx> -->
<?MIVAR NAME=$WHERE_STR><?/MIVAR>
<?MIBLOCK COND="$(AND,$(XST,$selectState),$(<,0,$(STRLEN,$selectState)))">
    <?MIVAR NAME=$WHERE_STR>WHERE state="$selectState"<?/MIVAR>
    <?MIVAR><P>For state: $selectState</P><?/MIVAR>
<?/MIBLOCK>

<!-- <ibyx>
<p>Next, the app page starts the table that will contain the data.
</p>
</ibyx> -->
    <P><TABLE BORDER="1">
        <TR>
            <TH>Number</TH><TH>Name</TH><TH>Company</TH><TH>State</TH>
        </TR>

<!-- <ibyx>
<p>The MISQL block queries for customers, optionally selecting only customers
from the specified state. Because the contents of the block are generated
for every row of data, a new table row describes each customer.

The &nbsp; HTML entity is a non-breaking space. By putting a non-breaking
space in each column, we force the Web Browser to display the column even
if the value is null.
</p>
</ibyx> -->
<?MISQL SQL="SELECT customer_num, fname, lname, company, state FROM customer $WHERE_STR;">
    <TR>
        <TD>$1&nbsp;</TD><TD>$2&nbsp;</TD><TD>$3&nbsp;</TD><TD>$4&nbsp;</TD><TD>$5&nbsp;</TD>
    </TR>
<?/MISQL>

    </TABLE></P>

<!-- <ibyx>
<p>The sportsFooter dynamic tag creates a standard footer
for the HTML page.
</p>
</ibyx> -->
<?sportsFooter>

```

Fig. 18C

1910 1920 1300

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## Creating Web Applications with the Web DataBlade AppPage



In this How To we'll build a simple Web application using a Web DataBlade Application Page (AppPage). This Web application will access an Informix database.

**Requirements:** IDS 9.x, the Web DataBlade module, BladeManager, and a web server. BladeManager is provided with IDS 9.x for UNIX. NT users must install BladeManager from the DataBlade Development Kit (DBDK).

These instructions assume you've already installed Informix IDS 9.x and have it running locally.

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Fig. 19A



## Creating Web Applications with the Web DataBlade AppPage

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In this How To we'll build a simple Web application using a Web DataBlade Application Page (AppPage). This Web application will access an Informix database.

**Requirements:** IDS 9.x, the Web DataBlade module, BladeManager, and a web server. BladeManager is provided with IDS 9.x for UNIX. NT users must install BladeManager from the DataBlade Development Kit (DBDK).

These instructions assume you've already installed Informix IDS 9.x and have it running locally.

- Define a server connection and prepare a sample database.
    1. Define a server connection with setnet32 (NT). Create a sample database or use the stores7 demo database. ▶ Prepare Database.
  2. Prepare the Web DataBlade development environment.
    - ▶ Prepare Web DataBlade Development Environment.
  3. Register the Web DataBlade module in the demo database with BladeManager. ▶ Register the Web DataBlade.
  4. Create a sbspace for smart large objects, like gifs. ▶ Create Smart Blob Space (sbspace).
  5. Install AppPage Builder in your database. ▶ Install AppPage Builder in Your Database.
  6. Setup AppPage Builder on your web server. ▶ Setup AppPage Builder on Your Web Server.
  7. Create a sample AppPage. ▶ Create Sample AppPage.
- Run the sample application.
8. Enter the URL `http://your_server/scripts/webdriver.exe`.



This How To has been compiled into two separate files for ease of printing. The basic file contains all of the steps you need to Create Web Applications with AppPage Builder. The secondary file contains additional detailed instructions for setting and testing database environment properties.

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**Creating the Web AppPage**

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Warning: Applet Window

In this How To we'll build a simple Web application using a Web DataBlade Application Page (AppPage). This Web application will access an Informix database.

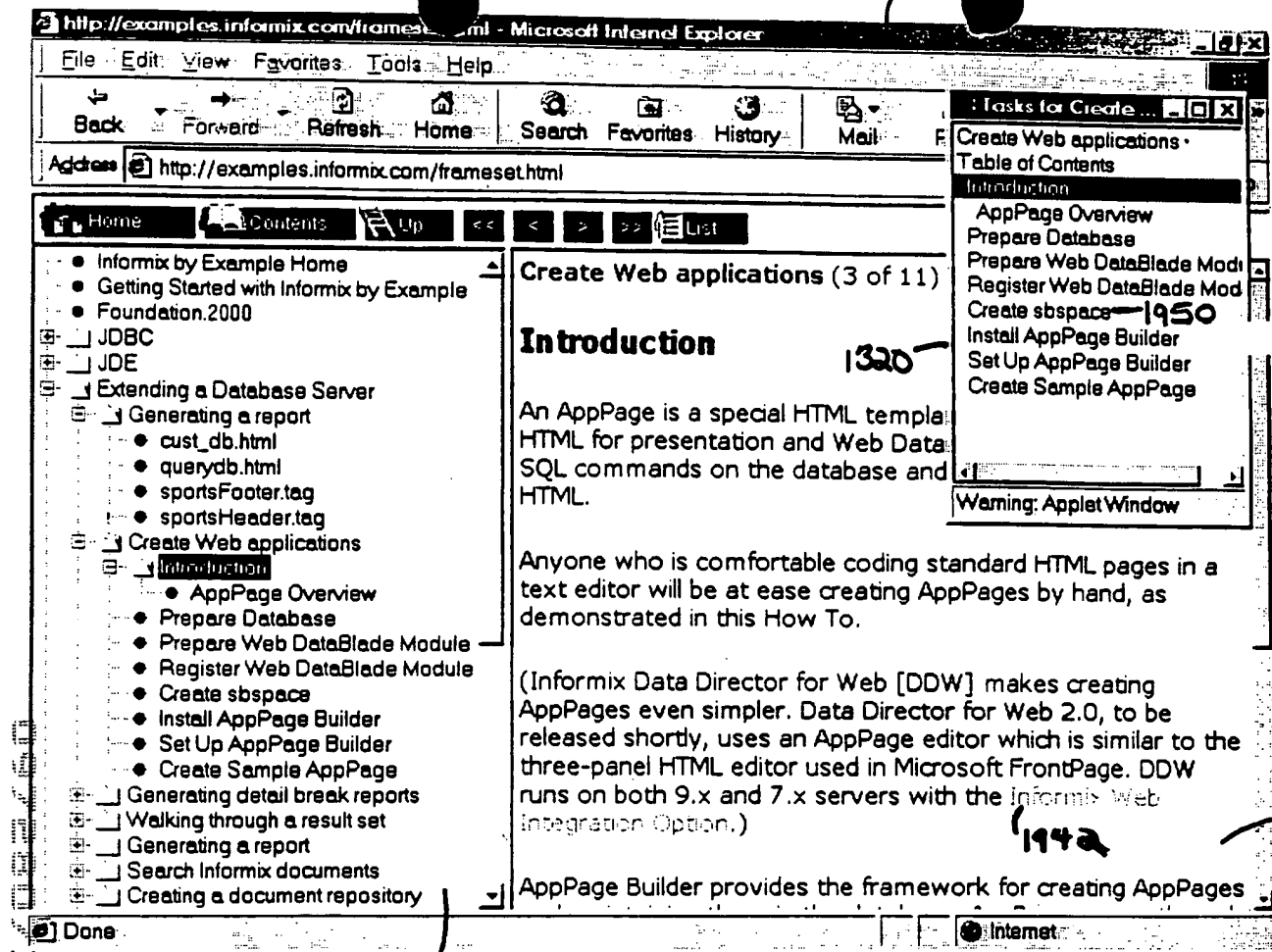
**Requirements:** IDS 9.x, the Web DataBlade module, BladeManager, and a web server. BladeManager is provided with IDS 9.x for UNIX. NT users must install BladeManager from the DataBlade Development Kit (DBDK).

These instructions assume you've already installed Informix IDS 9.x and have it running locally.

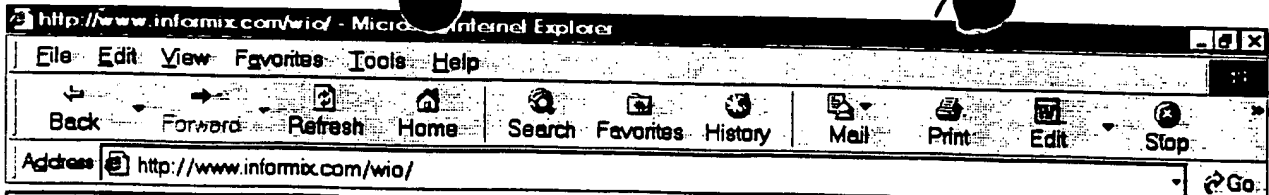
Done Internet

1305

Fig. 19C







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## Informix Web Integration Option Overview

Informix Web Integration Option provides high-performance connectivity between Web servers and Informix Dynamic Server. Web Integration Option enables Web developers to rapidly create, manage, and deploy value-added Web applications that dynamically deliver tailored Web pages to a corporation's Internet, intranet, and extranet users.

With its openness and highly optimized integration, Web Integration Option enables organizations to exploit the power of Informix Dynamic Server while using the tools and languages they already know.

Web Integration Option offers:

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Fig. 19E

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- Set Up AppPage Builder
- Create Sample AppPage

Warning: Applet Window

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Fig. 19F

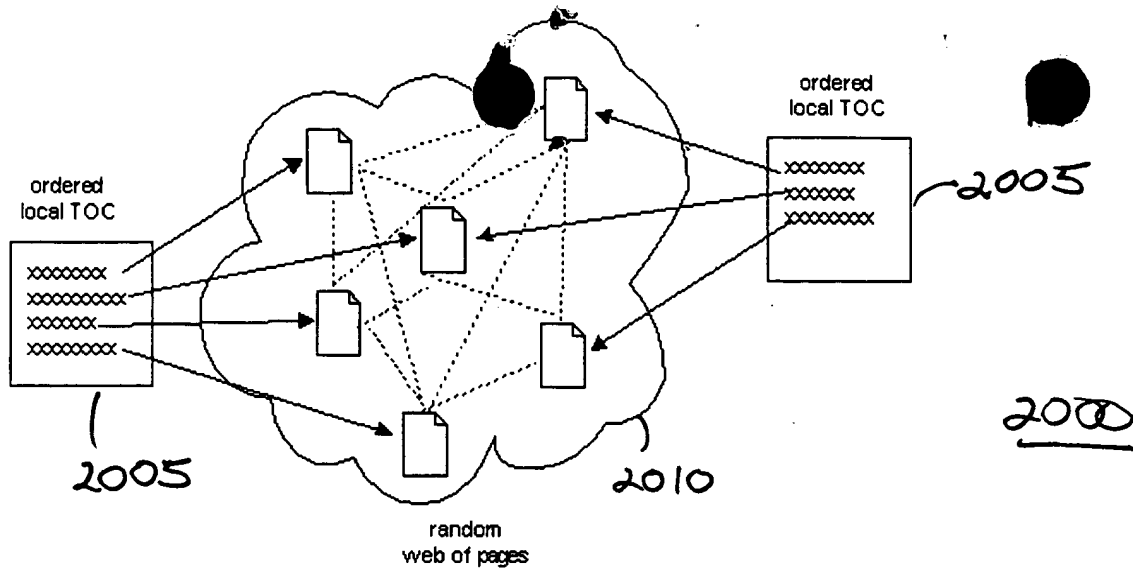


Fig. 20

0072807-420400